

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. Contract ID Code Firm-Fixed-Price	Page 1 Of 47
2. Amendment/Modification No.  P00001		3. Effective Date  2007JUL18		4. Requisition/Purchase Req No.  SEE SCHEDULE	
5. Project No. (If applicable)					
6. Issued By  U.S. ARMY TACOM LCMC AMSTA-AQ-ADEAF DAVID FORSGREN (586)574-6360 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL WEAPON SYSTEM: UA/TACT POL EQUI EMAIL: DAVID.G.FORSGREN@US.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6)  DCMA TEXAS 600 N PEARL STREET SUITE 1630 DALLAS, TX 75201-2843	
				Code S4402A	
				SCD C PAS NONE ADP PT HQ0339	
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)  BOWHEAD MANUFACTURING COMPANY, L.L.C 6648 GULFWAY DR PORT ARTHUR, TX 77642-0315				<input type="checkbox"/>   <input checked="" type="checkbox"/>  	
				9A. Amendment Of Solicitation No.	
				9B. Dated (See Item 11)	
				10A. Modification Of Contract/Order No.  W56HZV-07-C-0409	
				10B. Dated (See Item 13)  2007MAY21	
Code 41HK8		Facility Code			
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. <b>FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.</b> If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. Accounting And Appropriation Data (If required) ACRN: AB NET INCREASE: \$293,548.78					
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS</b>					
KIND MOD CODE: G It Modifies The Contract/Order No. As Described In Item 14.					
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: The Changes Set Forth In Item 14 Are Made In The Contract/Order No. In Item 10A.					
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).					
<input checked="" type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: Mutual Agreement of the Parties					
<input type="checkbox"/> D. Other (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.					
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  SEE SECOND PAGE FOR DESCRIPTION					

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. Name And Title Of Signer (Type or print)		16A. Name And Title Of Contracting Officer (Type or print) DAVID EPSKAMP DAVID.EPSKAMP@US.ARMY.MIL (586)574-7356	
15B. Contractor/Offeror  _____ (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America  By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed  2007JUL18

NSN 7540-01-152-8070

PREVIOUS EDITIONS UNUSABLE

30-105-02

STANDARD FORM 30 (REV. 10-83)

Prescribed by GSA FAR (48 CFR) 53.243

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page</b> 2 <b>of</b> 47
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

SECTION A - SUPPLEMENTAL INFORMATION

1. The purpose of this modification P00001 to Contract W56HZV-07-C-0409 is to:
- a. Add the following Exhibit Line Item Numbers (ELINS) to Section B - Supplies or Services and Prices/Costs, of Contract Line Item Number (CLIN) 0002:

CLIN	CDRL	Noun
0002		
	A002	Report, Record of Meeting Minutes
	A003	LMI Summaries - Maintenance Analysis
	A004	Maintenance Allocation Chart
	A005	LMI Data - Long Lead-Time Items List (LLTI)
	A006	LMI Data - Basic Issue Items (BII) List
	A007	LMI Data - Expendable/Durable Items List (EDIL)
	A008	LMI Data - Components of End Items (COEI) List
	A009	Tools and Test Equipment
	A010	LMI Data - Provisioning and Pre-Procurement Screening
	A011	LMI Data - Provisioning Parts List (PPL)
	A012	NMWR Candidates List
	A013	NMWR Data Summary
	A014	Technical Manual with RPSTL
	A015	RESERVED
	A016	Electronic TM's (ETM's)
	A017	Design Change Notices (DCN's)
	A018	Authorized Stockage List (ASL)
- b. Add Section C - Description/Specifications/Work Statement, paragraphs C.6 through C.31.
- c. Add the following attachments to Section J - List of Attachments:
- Attachment 0005 - Army's Two Level Maintenance MAC Header

Attachment 0006 - Maintenance Analysis

Attachment 0007 - Provisioning

Attachment 0008 - Publications Requirements - Department of the Army Technical Manual Requirements

Attachment 0009 - Table A-H. TM Requirements Matrix for Bowhead 600 GPM Pump

Attachment 0010 - Repair Parts and Special Tools List (RPSTL) Requirements

Attachment 0011 - National Maintenance Work Requirements (NMWR) Data Summary
- d. Delete reference to paragraph C.4.2 in Block 5 of CDRL A001 and replace with C.5.2.
- e. Change Section J - List of Attachments, List of Addenda, Exhibit A, Title from "CDRL A001 Special Packaging Instructions" to: CDRL A001 through A018. Change the associated narrative on Exhibit A to reflect this change.
2. As a result of this modification P00001, the total amount of Contract W56HZV-07-C-0409 is increased by \$293,548.78 from \$379,500.00 to \$673048.78 and all other terms and conditions remain unchanged.

\*\*\* END OF NARRATIVE A0001 \*\*\*

Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
0002	<u>DATA ITEMS</u>  SECURITY CLASS: Unclassified				
A001	<u>SPECIAL PACKAGING INSTRUCTIONS</u>  NOUN: SPECIAL PACKAGING INSTRUCTION SECURITY CLASS: Unclassified  I.A.W. SECTION C, PARAGRAPH C.5.2  (End of narrative B001)  <u>Inspection and Acceptance</u> INSPECTION: DestinationACCEPTANCE: Destination			\$ ** NSP **	\$ ** NSP **
A002	<u>DATA ITEM</u>  NOUN: REPORT, RECORD OF MEETING MINUTES I.A.W. SECTION C, PARAGRAPH C.7  (End of narrative B001)  <u>Inspection and Acceptance</u> INSPECTION: DestinationACCEPTANCE: Destination  <u>Deliveries or Performance</u> DLVR SCHPERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 0010AS REQUIRED  <u>Deliveries or Performance</u> See DD 1423  (End of narrative F001)				\$ ** NSP **
A003	<u>DATA ITEM</u>  PRON: P176G1492TPRON AMD: 04ACRN: AB				\$ 20,746.03

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Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C					
ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A004	AMS CD: 53304700144				
	NOUN: LMI SUMMARIES - Maintenance Analysis Worksheet I.A.W. SECTION C, PARAGRAPH C.11				
	(End of narrative B001)				
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
	Deliveries or Performance DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 0 30-SEP-2009				
	\$ 20,746.03				
	Deliveries or Performance See DD 1423				
	(End of narrative F001)				
	DATA ITEM				\$ 11,245.47
	PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144				
NOUN: Maintenance Allocation Chart (MAC) I.A.W. SECTION C, PARAGRAPH C.11					
(End of narrative B001)					
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
	Deliveries or Performance DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 0 30-SEP-2009				
	\$ 11,245.47				
	Deliveries or Performance See DD 1423				

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Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A005	<p>(End of narrative F001)</p> <p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: LMI DATA - Long Lead Time Items List I.A.W. SECTION C, PARAGRAPH C.16</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 0 30-SEP-2009</p> <p>\$ 5,455.48</p> <p><u>Deliveries or Performance</u> See DD 1423</p> <p>(End of narrative F001)</p>				\$ 5,455.48
A006	<p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: LMI DATA - Basic Issue Items (BII) List I.A.W. SECTION C, PARAGRAPH C.17</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL REL CD QUANTITY DATE</p>				\$ 6,011.39

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Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p>001 0 30-SEP-2009</p> <p>\$ 6,011.39</p> <p><u>Deliveries or Performance</u> See DD 1423</p> <p>(End of narrative F001)</p> <p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: LMI DATA - Expendable/Durable Items List (EDIL) I.A.W. SECTION C, PARAGRAPH C.18</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 30-SEP-2009</p> <p>\$ 6,011.39</p> <p><u>Deliveries or Performance</u> See DD 1423</p> <p>(End of narrative F001)</p>				\$ 6,011.39
A008	<p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: LMI Data - Components of End Item (COEI) List I.A.W. SECTION C, PARAGRAPH C.19</p> <p>(End of narrative B001)</p>				\$ 6,011.39



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Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: LMI Data - Provisioning and Pre-Procurement Screening I.A.W. SECTION C, PARAGRAPH C.2.1</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 0 30-SEP-2009</p> <p>\$ 814.44</p> <p><u>Deliveries or Performance</u> See DD 1423</p> <p>(End of narrative F001)</p>				
A011	<p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: LMI Data - Provisioning Parts List (PPL) I.A.W. SECTION C, PARAGRAPH C.21</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 0 30-SEP-2009</p> <p>\$ 47,773.34</p> <p><u>Deliveries or Performance</u></p>				\$ 47,773.34



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Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A012	<p>See DD 1423</p> <p>(End of narrative F001)</p> <p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: NMWR Candidates List I.A.W. SECTION C, PARAGRAPH C.23</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 30-SEP-2009</p> <p>\$ 5,255.12</p> <p><u>Deliveries or Performance</u> See DD 1423</p> <p>(End of narrative F001)</p>				\$ 5,255.12
A013	<p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: NMWR Data Summary I.A.W. SECTION C, PARAGRAPH C.23</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 30-SEP-2009</p>				\$ 16,877.91

**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A014	\$16,877.91				
	<u>Deliveries or Performance</u> See DD 1423				
	(End of narrative F001)				
	<u>DATA ITEM</u>				\$151,025.67
	PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144				
	NOUN: Technical Manual (TM) with RPSTL I.A.W. SECTION C, PARAGRAPH C.26, C.27 and C.28				
	(End of narrative B001)				
	<u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination				
	<u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 30-SEP-2009				
	\$151,025.67				
A015	<u>Deliveries or Performance</u> See DD 1423				
	(End of narrative F001)				
	<u>RESERVED</u>			** NSP **	** NSP **
	<u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination				
	<u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 30-SEP-2009				

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Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A016	<p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: Electronic TMs I.A.W. SECTION C, PARAGRAPH C.27</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH                      PERF COMPL REL CD                      QUANTITY                      DATE 001                      0                      30-SEP-2009</p> <p>\$ 1,409.37</p> <p><u>Deliveries or Performance</u> See DD 1423</p> <p>(End of narrative F001)</p>				\$ 1,409.37
A017	<p><u>DATA ITEM</u></p> <p>NOUN: Design Change Notice (DCN) I.A.W. SECTION C, PARAGRAPH C.24</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>			\$ ** NSP **	\$ ** NSP **
A018	<p><u>DATA ITEM</u></p> <p>PRON: P176G1492T PRON AMD: 04 ACRN: AB AMS CD: 53304700144</p> <p>NOUN: Authorized Stockage List (ASL) I.A.W. SECTION C, PARAGRAPH C.25</p> <p>(End of narrative B001)</p>				\$ 4,301.96

Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT						
	<u>Inspection and Acceptance</u> INSPECTION: Destination      ACCEPTANCE: Destination  <u>Deliveries or Performance</u> DLVR SCH      PERF COMPL <table><tr><td><u>REL CD</u></td><td><u>QUANTITY</u></td><td><u>DATE</u></td></tr><tr><td>001</td><td>0</td><td>30-SEP-2009</td></tr></table> \$      4,301.96  <u>Deliveries or Performance</u> See DD 1423  (End of narrative F001)	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	0	30-SEP-2009				
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>									
001	0	30-SEP-2009									

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 13 of 47</b>
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 BOWHEAD 600 GPM FUEL PUMPING ASSEMBLY

C.2 General

C.2.1 This contract is for a single year firm-fixed price contract for 6 (six) each pumps to be delivered for testing at the following locations:

1 each Pump for Rail Impact Testing,  
Ship To: US Army Proving Ground  
Transportation Office, BLDG 2710  
301 C. Street  
Yuma, AZ 85365  
ATTN: Juan Cuevas

1 each Pump for Environmental Testing,  
Ship To: CSTE-DTC-WS-IS-MS-R  
Transportation Officer Bldg 1840  
White Sands Missile Range, NM 88002-5201  
ATTN: Jeffrey Dallman  
e-mail: j.dallman@us.army.mil  
Comm. (505) 678-5699

1 each Pump for E3 testing and Hemp Testing  
Ship To: USA White Sands Missile Range  
ATTN: CSTE-DTC-WS-SV (A. Perez)  
Building 21225  
WSMR, NM 88002  
e-mail : alfredo.perez5@us.army.mil  
Comm. (505) 878-1866

3 each Pumps, Ship To: US Army TACOM (W56HZX)  
XU W4GG HQ US ARMY TACOM  
USA TACOM  
6501 E 11 MILE RD  
BLDG 249  
POC: Ralph Dunton (Shipping and Receiving POC)  
COMM: (586) 574-7485  
DSN: 786-7485  
E-mail: duntonR@tacom.army.mil  
Engineering POC: Ken Walther COMM (586) 5744237  
E-mail: waltherK@tacom.army.mil

Test Pumps shall be shipped to the test locations using best commercial packaging with the exception of this Pump being shipped to YPG for rail impact testing (See C.5). This Pump shall be contained in a 20 ISO IC cargo container in accordance with C.5 and D.1 of this contract. Additional instructions for this pump will be provided to the contractor at least 15 days prior to the scheduled ship date of 10 June 07.

C.3 The 600 GPM Pumps delivered to the above test locations shall be built in accordance with the following:

C.3.1 NSN: 4320-01-546-6128 in accordance with USMC Contract M67854-05-D-5013 Attachment 001 Performance Specification dated 5-25-05 entitled "Performance Specification Pumping Assemblies, Two-Wheel Chassis Mounted, Diesel-Engine Driven, Bulk Transfer, 600 GPM Capacity, 350 Feet Total Head, Fuel and Portable Water Service". This USMC Performance Specification is included within Section J, Attachment 001 of contract W56HZV-07-C-0409.

C.3.2 All batteries shall be US Army approved IAW MIL-PRF-32143. Batteries shall be readily accessible for service and inspection and shall be of sufficient quantity and type to comply with the starting, lighting, normal and surge electrical loads, reserve electrical power capacity, and maintenance requirements.

C.3.3 Specification, Pumping Assemblies, Wheel Mounted, Diesel Engine Driven, Type I, Size 2 (Fuel 600GPM), MIL-PRF-53051B, dated 6 Aug, 1998 (Attachment 002) is provided for reference only.

C.3.3.1. The following improvements shall be incorporated into the pump:

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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

STARTER Design change to prevent possibility of circuitry keeping starter engaged after switch has been released.

SUCTION MANIFOLD Redesign, to maintain positive pressure head (rated at 150 psi working pressure, tested at 200 psi hydrostatic pressure).

BATTERY RESTRAINT- Modify battery restraint so that it does not move during shipment or from vibration; possible safety issue.

CONTROL PANEL Provide secure restraint for door while it is open; possible safety issue.

AIR ELIMINATOR VALVE Remove the automatic air eliminator valve

GROUNDING STUD ON TRAILER FRAME Relocate to accessible position for maintenance.

INFO LABELS In lieu of stickers, stencil information labels on.

INNER EXHAUST GUARDS Edges are very sharp, possible safety issue.

QUICK DISCONNECT COUPLINGS Both Water and Fuel pumps shall have quick disconnect couplings (Cam-Locks) per A-A-59326, 4- and 6-inch sizes as appropriate.

BLACKOUT LIGHTING Must be in accordance with ATPD 2315 paragraph 3.5.1.

DISCHARGE MANIFOLD Remove pressure relief valve.

HEMP/EMI As necessary to meet requirements of ATPD 2315 paragraphs 3.6.11 and 3.6.12.

C.3.3.2 The Pump assembly shall not exhibit and degradation of performance when subjected to Near Strike Lightning (NSL) or Personnel Electrostatic Discharge (PESD) when tested in accordance with MIL-STD-464. Assembly shall be subjected to PESD testing of 25,000 ± 500V, capacitance of 500 ± % Pico-Farads, series resistance 500 ± 5 % ohms; and NSL testing of a 200,000 Amp strike at 100M, electrical field strength 120,000 V/M. No permanent damage to the equipment shall be a successful test result.

C.4 In addition, the pump must meet system level interface requirements that apply to the FSSP assembly in accordance with ATPD-2315 D, Fuel System Supply Point, dated 15 October 2004 (attachment 004) and are listed as follows:

ATPD-2315 D Paragraph 3.4.1 Transportability. The FSSP shall be transportable by all modes of military and commercial transportation, including rail, highway, marine, and air in accordance with MIL-STD-1366. In addition, when transported on commercial or military vehicles without the TRICON or ISO containers, the FSSP components shall be within the highway permit limits for all U.S. states and the general unrestricted transport in NATO countries IAW MIL-STD-1366 regardless of ground or rail transport mode, not to exceed 4 meters in height. To meet this requirement, 1) full or partial disassembly or the use of kits is prohibited, ) the system and its components would be defueled prior to loading and shipment, and 3) the worst case scenario vehicle/trailer combination is assumed to be the PLS with flatrack mounted.

ATPD-2315 D Paragraph 3.4.1.1. Tiedown provisions. The pumping assemblies, filter/separator and fuel additive injector shall include tiedowns in accordance with MIL-STD-209 to allow for transportation independent of the system packaging. The tiedown provisions shall restrain the unit(s) without weld failure, permanent deformation, cracking, loosening, or breaking of the provision or its connecting structural components.

ATPD-2315 D Paragraph 3.4.1.2. Slinging provisions. The pumping assemblies, filter/separator and fuel additive injector shall be equipped with slinging provisions. The provisions shall enable the components to be lifted independent of the system packaging. Slinging provisions, in accordance with MIL-STD-209, shall be located so that at least a 1-inch clearance is maintained between slings and all exterior parts. Reinforcement may be fastened to members that shall withstand stresses, consistent with the amount and direction of pull. Slinging provisions may also be used as tiedown provisions when such provisions meet the requirements specified in 3.4.1.1. All slinging/tiedown provisions shall be labeled "LIFT", "TIEDOWN", or "LIFT TIEDOWN", as appropriate, in 1-inch (2.54 cm) high letters.

ATPD-2315 D Paragraph 3.4.1.3 Rail transport compatibility. The packed FSSP 20-foot ISO and TRICON containers shall be rail transportable in CONUS and NATO countries without restriction. The containers for the FSSP shall have a dimensional envelope and international loading gauge Galbarit International de Chargement (GIC) in accordance with STANAG 2832, when loaded on 50-inch (127-cm) high rail car. The FSSP shall be capable of withstanding shock loads resulting from rail impact without failure, damage, or permanent deformation.

ATPD-2315 D Paragraph 3.4.1.3.1 Rail impact. The FSSP shall be capable of withstanding shock loads resulting from rail shipment or railroad car impacts as described in MIL-STD-810, without failure, damage, permanent deformation, or reduction in operational or design capability.

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ATPD-2315 D Paragraph 3.4.1.4. Highway transportability. When transported on commercial or military vehicles, the FSSP shall be within the highway permit limits for all U.S. states and the general unrestricted transport in NATO countries regardless of transport mode. This shall apply to both transport configurations (see 3.4.1) and individual components when properly positioned and secured on the employment or transport vehicles (see 3.4.1.4.1.).

ATPD-2315 D Paragraph 3.4.1.4.1 Ground transport and handling. The dis-assembled FSSP shall be capable of transport by the specified US Army trucks listed below, and lifted by material handling equipment as listed below:

ATPD-2315 D Paragraph 3.4.1.4.1 Vehicles. The FSSP system(s) and its separately identifiable components shall be transportable by the appropriate size standard US Military 5-ton and heavier capacity cargo trucks and their designated trailers, and appropriately sized military and commercial tractor and trailer combinations.

b. Material handling equipment As a minimum, any required mechanical handling of the containers, loaded and unloaded, and components of the FSSP systems, shall be accomplished without restrictions or additional kits and from each (all) of the four sides by appropriately sized standard US Army forklifts of the types and series described below. Equivalent commercial forklifts that are capable of safely lifting 10,000 lbs. with 48-in. load centers and a minimum of 72-in. tines may be used in lieu of the M10A and ATLAS. Large-capacity, fixed and self-propelled container handlers with equal to or greater than performance of the RTCH may also be used for the 20-foot ISO containers.

- (1) 10,000lbs. All Terrain Lifter Army System (ATLAS), TM 10-3930-673-10.
- (2) M10A, TM 10-3930-643-10.
- (3) Rough Terrain Container Handling (RTCH)

ATPD-2315 D Paragraph 3.4.1.5 Marine transport. Each FSSP, when stored in 20-foot ISO or TRICON containers, shall be transportable by military and commercial ships and barges.

ATPD-2315 D Paragraph 3.4.1.6 Aircraft transport.

ATPD-2315 D Paragraph 3.4.1.6.1 Fixed wing aircraft. The FSSP stored in 20-foot ISO or TRICON containers shall be capable of air transport by C-130 or larger military and commercial fixed-wing cargo aircraft. MIL-HDBK-1791 may be used for guidance.

ATPD-2315 D Paragraph 3.4.1.6.2 Rotary Wing Aircraft. Fully-packed TRICON and 20-foot ISO containers shall be externally transportable by CH-47 aircraft. Individual components and components packaged in reusable containers, minus the TRICON and 20-foot ISO containers, shall be capable of internal air transport by UH-60 or larger US military and commercial rotary-wing aircraft. Those individual components restricted by size (example pumping assemblies and larger sized tanks) from internal transport by UH-60 or larger US military and commercial rotary wing aircraft shall be capable of external transport by these aircraft.

ATPD-2315 D Paragraph 3.4.2 NATO intervehicle receptacle. A receptacle conforming to NATO STANAG 4074 Type 1 (11674728) with cover shall be provided to allow the FSSP pumping assemblies to accept electrical power from another 28 VDC military system through a NATO intervehicle cable and plug assembly, the same or similar as specified in 3.4.3. The receptacle shall be labeled "28~VOLTS".

ATPD-2315 D Paragraph 3.4.3 NATO intervehicle cable and plug assembly. A 20-ft. intervehicle cable and plug assembly, NSN 6150-01-022-6004 (11682336-1), IAW NATO STANAG 4074 shall be provided with each pumping assembly to provide emergency electrical power and emergency starting capability to the pumping assembly (see 3.3.5).

ATPD-2315 D Paragraph 3.4.4 Military standard fuels. Each FSSP shall be capable of operating with and receiving, storing, transferring, and dispensing the following fuels, oils, and lubes. In addition, the FSSP shall have the capability of operating with potable and non-potable water for tests, demonstrations, and troop training without modifications, the use of kits, or adversely affecting any component.

- MIL-DTL-83133 (JP-8)(NATO F-34).
- MIL-DTL-5624 (JP-5)(NATO F-44).
- ASTM-D-975(Diesel-U.S. commercial).
- A-A-52557 (Diesel-military, including NATO F-54).
- ASTM-D-1655 (Jet A-1) (NATO F-35).
- MIL-F-46162 (Type I and II Referee Grade Diesel).

ATPD-2315 D Paragraph 3.4.5 Lubricants. Each FSSP, depending on the ambient temperature, shall use one or more of the following lubricating oils: MIL-PRF-2104, MIL-PRF-46167, and MIL-PRF-21260. Gear oil, if required, shall conform to MIL-PRF-2105, antifreeze to A-A-52624, and grease to MIL-PRF-10924.

ATPD-2315 D Paragraph 3.5.4 Lighting. All components of the FSSP system shall be effectively operable by the operator in reduced visibility, nighttime, and blackout conditions.

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ATPD-2315 D Paragraph 3.5.4.1 Lighting, non tactical. Permanent or detachable lighting shall be provided to insure safe, non-tactical/training operation of the FSSP in darkness and periods of reduced visibility.

ATPD-2315 D Paragraph 3.5.4.2 Lighting, tactical/blackout operations. Lighting provisions shall meet the following requirements:

a.     Ninety-five % of the light energy emitted by each light source shall be at wavelengths below 700 nanometers.

b.     All light sources shall be dimmable to 0.05 ft-Lamberts (fL) or less.

c.     A single on/off blackout switch, labeled BLACKOUT SWITCH, shall control the light source(s) at the FSSP component level (an example at the FSSP component level would be the pumping assembly).

ATPD-2315 D Paragraph 3.6.1 Operational temperature. The system shall operate as specified at any ambient temperature from -25oF to +120oF without modifications or the use of kits.

ATPD-2315 D Paragraph 3.6.2 Storage temperature. The system, when stored in the 20-foot ISO/TRICON containers for two (2) years in an open environment or four (4) years in a warehouse environment, shall not be damaged by any ambient temperature from - 30oF to +160oF.

ATPD-2315 D Paragraph 3.6.3 Sand. The system shall perform as specified herein in a blowing sand environment when subjected to a minimum sand concentration of 0.062 \ 'b1 0.015 gram per cubic foot (g/ft3) at a minimum wind velocity of 3540 feet per minute (ft/min).

ATPD-2315 D Paragraph 3.6.4 Dust. The system shall perform as specified herein in a blowing dust environment when subjected to a minimum dust concentration of 0.3 \ 'b1 0.2 g/ft3 at a minimum wind velocity of 300 ft/min.

ATPD-2315 D Paragraph 3.6.5 Humidity. The system shall perform as specified under relative humidity of up to 88%.

ATPD-2315 D Paragraph 3.6.6 Solar radiation. The system shall perform as specified with up to 355 British thermal units (BTUs) per square foot per hour of solar radiation.

ATPD-2315 D Paragraph 3.6.7 Rain. The system shall perform as specified herein when subjected to a blowing rain environment of up to 4 inches per hour.

ATPD-2315 D Paragraph 3.6.8 Salt fog. The system shall withstand damage from being exposed to salt fog.

ATPD-2315 D Paragraph 3.6.9 Altitude. The FSSP components, in storage configuration, shall withstand the low\\_pressure environment at a minimum altitude of 40,000 ft. The FSSP, when in operation, shall perform as specified at altitudes of at least 9,000 ft above sea level at a maximum temperature of 107F.

ATPD-2315 D Paragraph 3.6.10 Noise limits. Steady-state noise produced by any component of the system shall not exceed 85 dB(A) at the operators position and at occasionally occupied positions (see 6.7.4). If noise levels are between 85 and 90 dB(A), or if procedures for noise suppression have been pursued and documented to the satisfaction of the procuring activity and written permission to exceed the 85 dB(A) limit obtained, noise hazard signs shall be prominently displayed on the equipment. Signs shall state:

DANGER

HEARING PROTECTION REQUIRED

WITHIN XX FEET

The word DANGER shall be on the first line and shall be white lettering on a red oval background, which is inside a black rectangular panel in flat or lusterless colors. Other lettering shall be in black on a white background in lusterless colors. FED-STD-595 may be used for guidance. All lettering shall be readable at the maximum distance at which a noise level of 85 dB(A) is measured and this distance shall be inserted for XX.

ATPD-2315 D Paragraph 3.6.11 Electromagnetic interference. The electromagnetic radiated interference and susceptibility characteristics of the system shall not exceed the limits specified in MIL-STD-461 for Army ground equipment or systems.

ATPD-2315 D Paragraph 3.6.12 High-altitude electromagnetic pulse. The system shall not exhibit any malfunction or degradation of performance when subjected to RS 105 per MIL-STD-461. Reference High-altitude electromagnetic pulse (HEMP) environment in accordance with MIL-STD-464.

ATPD-2315 D Paragraph 3.7 Personnel integration (MANPRINT) requirements. The system shall be operated, maintained, and recovered by the following military-trained personnel, as designated by DA Pam 611-21:

Military Occupational Specialty (MOS) 77F (Petroleum Supply Specialist).



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- MOS 63J (Quartermaster and Chemical Equipment Repairman).
- MOS 52D (Power Generator Repairman).
- MOS 77L (Petroleum Laboratory Specialist)

ATPD-2315 D Paragraph 3.8 Identification, marking and information. Unless otherwise specified (see 6.2), identification and marking, in addition to those required by component documentation shall be in accordance with MIL-STD-129 and MIL-STD-130.

ATPD-2315 D Paragraph 3.10 Treatment and painting. For treatment and painting purposes, the FSSP is not considered a High Performance System and Enhanced CARC requirements are not required. Unless otherwise specified (see 6.2), all external surfaces of the system except as noted below, regardless of the material selected, shall have a finish coat of Chemical Agent Resistant Coating (CARC) paint in accordance with MIL-C-53039 or MIL-DTL-64159. The color shall be Desert Tan 686A, color number 33446 in accordance with FED-STD-595.

- a. The color of all other surfaces, to include those within a housing, those behind insulation material, and the insulation retainer, if used, shall be Desert Tan 686A, color number 33446 or black, color number 37030 in accordance with FED-STD-595 or the manufacturer's standard color, if approved by the Government.
- b. The following items shall not be painted: terminal wiring connections, governor linkage, instruction diagrams and plates, rectifiers, relays, switches, circuit interrupters, instrumentation, rubber, lubrication fittings, hoses, nozzles, dry break couplings, and all other parts whose operation or function would be adversely affected. Insulation material shall be painted unless the sound absorbing characteristics of the material are compromised.
- c. Identification plates shall be installed following application of the final finish coat.
- d. CARC paint shall not be applied to surfaces that have been anodized or may exceed temperatures of 400\°b0F.

ATPD-2315 D Paragraph 3.11 Welding. All welding shall be IAW AWS\~D1.1, AWS D1.2, AWS D1.3 and the ASME\~Boiler and Pressure Vessel Code.

C.5 Packaging

C.5.1 The Test Pump shipped to YPG for rail impact testing shall have a detailed anchoring plan developed by the contractor for anchoring the Pump inside a 20 end opening ISO 1C container. When anchored inside the container the tires of the Pump shall be elevated off the floor of the container. The Pump landing gear and stabilizing legs shall not be used to elevate the tires or to anchor the Pump inside the container. Attachment 003 entitled "PKG" is provided in Section J of this contract as guidance to the contractor. Attachment 003 PKG shows the position of the Pump inside the ISO containers relative to the other contents of the containers in an 800K FSSP system and it shows an example of what might be used to elevate the Pump.

C.5.2 Contractor shall develop a Special Packaging Instruction (SPI) to document the detailed anchoring plan describing the processes and materials required to anchor the Pump in accordance with MIL-STD-2073-1D formatted in accordance with DI-PACK-80121B in sufficient detail for production. Special Packaging Instructions are developed for those items requiring narrative instructions or figures to describe packaging requirements. The anchored pump must meet system level requirements that apply to the FSSP assembly in accordance with ATPD-2315 D, Fuel System Supply Point, dated 15 October 2004 (attachment 004) that are listed in paragraph C.3.3.1 of this contract. Information shall be formatted and delivered in accordance with: [CDRL A001] Data Item Description DI-PACK-80121B, Special Packaging Instructions.

C.6 LOGISTICS REQUIREMENTS

C.6.1 Bowhead 600 GPM pump assembly will be in accordance with requirements stated in paragraph C.3 of this statement of work.

C.6.1.1 When used in this section the word contract means the Bowhead 600 GPM pump Logistics Management Information (LMI) contract, the word contractor means the Bowhead 600 GPM pump Logistics Management Information (LMI) contractor, unless specified otherwise.

C.6.2 APPLICABLE DOCUMENTS

NOTE: The most recent versions of these documents shall be used.

DATA ITEMS	
DI-ILSS-81530	MAINTENANCE ALLOCATION CHART (MAC)
DI-ILSS-80868	SUPPORT EQUIPMENT TOOLS AND TEST EQUIPMENT
DI-ALSS-81529	BASIC ISSUE ITEMS (BII) LIST
DI-ALSS-81529	COMPONENT OF END ITEM LIST (COEI)
DI-ALSS-81529	PROVISIONING PARTS LIST (PPL)
DI-ALSS-81529	PROVISIONING & PRE-PROCUREMENT SCREENING
DI-ALSS-81529	EXPENDABLE/DURABLE ITEMS LIST (EDIL)
DI-ALSS-81529	ENGINEERING DESIGN FOR PROVISIONING (EDFP)
DI-ALSS-81529	DESIGN CHANGE NOTICE (DCN)
DI-ADMN-81505	REPORT, RECORD OF MEETING/MINUTES
DI-SAFT-80102B	SAFETY ASSESSMENT REPORT

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DI-CMAN-80639C	ENGINEERING CHANGE PROPOSAL (ECP)
<u>SPECIFICATIONS/STANDARDS</u>	
MIL-PRF-49406	PERFORMANCE SPECIFICATION LOGISTICS
	MANAGEMENT INFORMATION
MIL-STD-40051-2	PREPARATION OF DIGITAL TECHNICAL INFORMATION
	FOR PAGE-BASED TECHNICAL MANUAL
	(FOR TWO LEVEL MAINTENANCE ONLY)
MIL-STD 882D	STANDARD PRACTICE FOR SYSTEM SAFETY
MIL-STD-2073/1	STANDARD PRACTICE FOR MILITARY PACKAGING
<u>OTHER GOVERNMENT DOCUMENTS</u>	
TB 750-93-1	FUNCTIONAL GROUP CODES (FGC) TECHNICAL BULLETIN
AR 750-1	ARMY MATERIAL MAINTENANCE POLICY
MIL-HDBK-502	ACQUISITION LOGISTICS
FM 3-5	NBC DECONTAMINATION

C.6.3. Definitions and Clarifications Applicable to Section C and Related CDRL's:

1. Day(s) means calendar days.
2. DACA means number of days after the contract is awarded.
3. Due Date: If the due date for any performance by the Government or Contractor falls on a Saturday, Sunday, or federal holiday, then the due date for that performance shall instead be the next regular week day after the due date given in Section C and/or related CDRL's.
4. DAPVT means days after the Government approves the results of the Production Verification Test.
5. IPR means in process review.

#### C.7 MEETINGS (CDRL A002)

C.7.1 Start of Work Conference: Within ten (10) days after contract award, a Start of Work Conference shall be held at the U.S. Army Tank-automotive and Armaments Command (TACOM) or at the Contractors facility. The Contractor shall make available contract administration personnel, management, engineers, logistics support personnel as the Government deems required.

In this meeting the Contractor shall present detailed paths/milestone graphic presentations that defines Contractor performance necessary to meet contract delivery requirements as defined in the contract. The Contractor shall provide the Government an internal list of functional Contractor personnel involved in this contract. This list will be upgraded as required to maintain accuracy. The following conferences will be part of the Start of Work Conference:

C.7.2 Maintenance, Provisioning and Publications (MPP) Review Conference: This conference will be held at the U.S. Army Tank-automotive and Armaments Command (TACOM) or at the Contractors facility. This review will be held with-in Ten (10) DACA and in conjunction with the Start of Work Conference. If needed, follow-on Reviews/Conferences will be held every thirty (30) days thereafter, with final cleanup to be determined by the parties. The MPP Review conference will cover the following:

C.7.2.1 Provisioning Guidance: The Government will provide guidance to the Contractor for documenting and submitting provisioning data. The Contractor shall provide a provisioning performance schedule at the conference. This schedule shall provide an estimate of the number of items to be provisioned and the number of future provisioning conferences that will be required.

C.7.2.2 Engineering Data for Provisioning (EDFP): Engineering Data For Provisioning is technical data used to describe parts/equipment and consists of data such as specifications, standards, drawings, photographs, sketches, descriptions and the necessary assembly and general arrangement drawings, etc., needed to indicate the physical characteristics, location and function of the item. The contractor will conduct all provisioning processes utilized from the EDFP.

C.7.2.3 Maintenance Planning: During this conference the Government will review and discuss operator and maintenance functions, the maintenance concept for the system, and diagnostics requirements. The Contractor shall present detailed outlines of its maintenance strategy to demonstrate in detail that it is prepared to meet contract requirements.

C.7.2.4 Publications Guidance: The Government will review and discuss publications requirements.

C.7.2.5 Other Integrated Logistics Support (ILS) issues.

#### C.8 Provisioning Conference

A formal provisioning conference will be held IAW CDRL A011. Follow on Provisioning conferences may be held as required until provisioning is complete. Each conference will be a maximum of 5 working days with no more than 1500 items presented for review. The responsible Government Provisioning Representative will make any deviations from these requirements. The conference shall be based on the provisioning performance schedule. If required a final provisioning conference will be held as a clean up conference

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at the Contractors facility or at a facility where the End Item is available, as the Government directs. The Contractor will provide the following, as necessary, to support the provisioning conference effort:

C.8.1 Hard copy of the Provisioning Parts list (PPL) shall be in a format acceptable to TACOM Commodity Command Standard System (CCSS) database (1552 or LSA-036 format). CDRL A011

C.8.2 By the start of the conference, the contractor shall have annotated each Provisioning Line Item Sequence Number (PLISN) on the applicable EDFP.

C.8.2.1 EDFP shall be provided for each item appearing on the PPL, first appearance only, except for items that are documented by Government drawings, specifications or standards, or nationally recognized industry association specifications or standards. At a minimum, the technical documentation must provide the following:

C.8.2.2 Dimensional, material, mechanical, electrical and other descriptive characteristics.

C.8.2.3 Technical identification of items for maintenance of items for maintenance support consideration, to include location within its next higher assembly, i.e., internal location of an electrical component within an engine starter assembly.

C.8.2.4 If the drawing, commercial literature, specification or standard does not identify the location of the part within the end item, then a sketch or illustration must be attached to that specific document. The technical documentation will be provided on hardcopy and reproducible electronic format.

C.8.2.5 Technical Data submitted as EDFP shall be annotated with CAGEC, PCCN, PCC, and PLISN. On Engineering Drawings, the PLISN will be directly above the nomenclature. On Associated Lists, the PLISN will appear next to the item identification. When an Engineering Drawing or Associated List applies to multiple PLISNs, all PLISNs will be annotated on the Engineering Drawing or Associated List. The Engineering Drawings and Associated List will be provided in PLISN sequence to be compatible with the PPL. If commercial literature is provided, the CAGEC and PLISN will be annotated next to the appropriate manufacturer's part number. The sketch or illustration provided in support of the commercial literature, specification or standard must also have the PLISN annotated next to the specific item.

C.9 Contract Status Review Conference:

As part of the overall program management effort, the Contractor shall provide technical and managerial representative(s) to attend periodic meetings, on an as needed basis, minimally once per quarter or as needed at TACOM to review contract status. These reviews shall be for one eight-hour day or as specified. Topics to be discussed shall include but not limited to contract status, testing, production, logistics, technical issues, and deliverables. The Contractor and Government will develop an agenda at least 15 days prior to each meeting. A conference may be called by either the Government or the Contractor to clarify any questions in regard to contract requirements.

C.9.1 The Contractor shall make minutes of the all meetings and distribute the PCO approved minutes to all parties. Minutes shall be distributed within 5 days after the date of the meetings, in accordance with CDRL A002.

C.9.2 When meetings or conferences are held at the Contractors facility, the Contractor will make the following available for the Governments use:

- (1) Required technical, logistical or other documentation (including drawings, computer data bases, publications, and other required data).
- (2) Computer resources, as required.
- (3) Restrooms
- (4) Adequate office space
- (5) Access to standard office equipment including copy and fax machines.

C.10 MAINTENANCE CONCEPT

The Bowhead 600 GPM Pump will be serviced, maintained, repaired and overhauled at the lowest maintenance levels possible. This will require the use of the Armys maintenance transformation, two level maintenance policies as outlined below and in accordance with AR 750-1. The Contractor shall conduct a Maintenance Analysis and Supportability Analysis to develop logistics products described in this contract. The Contractor shall use Military Performance (MIL-PRF) Specification 49506 Logistics Management Information (LMI), as well as DI-ALSS-81529 for use in identifying content, format, delivery and related guidance for logistic data, except where otherwise identified in this contract.

C.11 MAINTENANCE ANALYSIS (A003)

C.11.1 The Contractor shall analyze the operational, maintenance and support function of the system in the identification of required operator and maintenance tasks using the current USMC draft TMs and provisioning file. Maintenance of the Bowhead 600 GPM

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pump will be driven by the two level maintenance concept: Field and Sustainment. During the first MPP TACOM and the contractor will conduct a review of the USMC materials to determine whether existing SMR coding/maintenance levels reflect the two-level maintenance. As part of this review, the current USMC products will be "marked-up" to reflect decisions made during the MPP. A draft Maintenance Allocation Chart will also be generated during this review. The review shall identify maintenance functions, levels of maintenance, manpower, spare parts and the support equipment required.

C.11.1.1 Field Level Maintenance is on-system maintenance and is mainly the replacement of defective parts and the accomplishment of preventative maintenance. Field maintenance returns repaired equipment to the soldier. It covers crew, service, and field maintenance tasks. Some off-system maintenance can be done at field level if, based on task analysis it is simple to complete or is critical to mission readiness.

C.11.1.2 Sustainment Level Maintenance is comprised of below depot and depot level maintenance functions. Sustainment Maintenance consists of repairing components, assemblies, modules, and end items in support of the supply system. Sustainment maintenance is characterized as off-system and repair rear. The intent of this level is to perform commodity-oriented repair on all supported items to one standard that provides a consistent and measurable level reliability. The Sustainment Level of Maintenance requires a National Maintenance Work Requirement (NMWR). (CDRL A012, A013)

- C.11.2 The analysis shall determine maintenance requirements, including all Preventative Maintenance Checks and Services (PMCS), based on:
- (1) Identification of components which are critical in terms of mission and operating system.
  - (2) Components whose functional failure will not be evident to the operator.
  - (3) Economical and/or operational consequences of failure.
  - (4) Where scheduled maintenance can prevent failures.

C.12 MAINTENANCE PLANNING

The Contractor shall conduct Maintenance Planning that determines maintainability characteristics of the Bowhead 600 GPM pump. This analysis shall be documented in the form of marked up provisioning/RPSTL and technical manuals and shall identify maintenance functions, level of maintenance, manpower, spare parts and the support equipment required. The analysis will be in End Item hardware top down breakdown, disassembly sequence with attaching hardware. It will identify Functional Group Codes in accordance with (IAW) TB 750-93-1, for each reparable item. The technical bulletin can be found at web site <http://www.logsa.army.mil>. The Contractor should enter the Publications, Electronic Technical Manual (ETM) selection and request access. The LMI summary products shall be delivered in accordance with all applicable CDRLs.

C.13 SUPPORTABILITY ANALYSIS

The Contractor shall develop a supportability analysis as part of the overall management and engineering process for the Bowhead 600 GPM pump. This analysis shall address the supportability requirements of the Bowhead 600 GPM pump in terms of operation and maintenance task requirements and the associated support resources to support it.

C.14 LEVEL OF REPAIR ANALYSIS (LORA)

The Contractor shall conduct the LORA for the Bowhead 600 GPM pump. This analysis shall determine the maintenance level at which the item should be repaired or replaced with an evaluation threshold of \$750 for Field and \$1,500 for Sustainment. The Contractor shall include economic and non-economic criteria in this analysis. Non-economic criteria that could impact the level of maintenance decision include, but are not limited to: manpower and personnel implications, support equipment and facilities available, and the maintenance concept. Results of this analysis shall be documented in the Maintenance Allocation Chart (MAC), CDRL A004 and Technical Manuals, (CDRL A013).

C.15 MAINTENANCE ALLOCATION CHART (MAC) (CDRL A004)

C.15.1 The Contractor shall submit the MAC in accordance with MIL-STD-40051-2 and the applicable CDRL A004. The MAC is a living document that forms the basis for provisioning and technical manual development. It is, therefore, subject to changes until First Article Testing is completed and approved. Its final approval will be concurrent with final TM approval for all manuals. Submittal shall consist of CD-ROM, PDF format. The MAC shall identify the maintenance functions that must be performed, the maintenance levels responsible for the function, the active service time, tools and test equipment necessary to perform the function, for each assembly, subassembly, and component in Functional Group Code sequence. The MAC shall include all maintenance significant components, assemblies, subassemblies and modules. No item will be deleted from the MAC unless the contractor is specifically authorized. If a maintenance function is a replacement function only for a repair part, the item shall not be listed in the MAC, unless not listing the item would result in deletion of the group number. In this case, the item shall be listed in order to retain the functional group number. Items requiring a test procedure before replacement shall also be listed on the MAC.

C.15.2 See Attachment 0005 for an example of the MAC header with the Armys two levels of maintenance incorporated.

C.15.3 The final MAC will be prepared in accordance with the format specified in MIL-STD-40051-2. The MAC shall include all

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maintenance significant components, assemblies, subassemblies, and modules. Parts requiring a test procedure prior to replacement shall also be listed in the MAC.

C.16 LONG LEAD TIME ITEMS (LLTI) (CDRL A005)

C.16.1 The Contractor shall provide a Long Lead Time Items List (LLTIL), containing items, that because of their complexity of design, complicated manufacturing processes or limited production capacities, may cause extended production of procurement cycles beyond three months, resulting in untimely and inadequate delivery, if not ordered in advance of normal provisioning.

C.16.2 Items identified on the LLTI shall contain the following: Item name, level of maintenance, NSN (if applicable), description, CAGE, part number, quantity required, unit price, PLISN and production lead-time.

C.16.3 The LLTI list will be reviewed and approved by the Government prior to final acceptance.

C.17 BASIC ISSUE ITEMS (BII) LIST (CDRL A006)

The Contractor shall provide a Basic Issue Items (BII) List. BII are those items identified as essential for an operator or crew to place the Bowhead 600 GPM pump into initial operation to accomplish its defined purpose. These items are essential to perform emergency repairs which cannot be deferred until completion of an assigned mission and routine maintenance. The BII are not listed on the engineering drawings. The BII includes those selected common and special purpose tools, TMDE, spare and repair parts, Operator publications, first aid kits, and safety equipment (for example fire extinguishers) authorized for the Bowhead 600 GPM pump. Although spare and repair parts are not normally included in BII, exceptions may be made to meet the criteria above. The Contractor shall over pack those items with each Bowhead 600 GPM pump.

C.18 EXPENDABLE AND DURABLE ITEMS LIST (EDIL) (CDRL A007)

This list defines the expendable/durable supplies and materials required for operating and maintaining the End Item. The minimum requirements for each submittal are the following: Item Number, Level, National Stock Number, Description, Commercial and Government Entity Code (CAGE), Part Number and Unit of Issue (UI). Final submittal of the Expendable and Durable Items List (EDIL) shall be in the format as depicted in MIL-STD 40051-2 and included in the applicable section of the final submission of the Department of the Army (DA) Technical Manual.

C.19 COMPONENT OF END ITEM (COEI) LIST (CDRL A008)

The Contractor shall provide a Component of End Item (COEI) List. These items are part of the End Item that must be with the End Item whenever it is issued or transferred between property accounts. COEI are removed and separately packaged for transportation. All major components of the Bowhead 600 GPM pump will be identified and described in the appropriate Bowhead 600 GPM pump operators manual. In addition, any component identified on the engineering drawing that is physically separate and distinct and that must be removed from the Bowhead 600 GPM pump and separately packaged and stored for transportation will be separately listed by NSN in a table as an appendix in the operators manual. The Contractor shall over pack those items with each Bowhead 600 GPM pump.

C. 20 SUPPORT Equipment Tools and Test Equipment (STTE)

The contractor shall deliver a list of Support Equipment Tools and Test Equipment IAW DI-ILSS-80868 and CDRL A009. The list shall be in tabular form and shall identify special tools and test equipment not contained in U.S. Army Supply Catalogs. Supply Catalogs contain common tool sets and are listed at US Army LOGSA web site at <https://weblog.logsa.army.mil/sko/index.cfm>. Maximum use of common tools, support equipment, and TMDE normally organic to the user is preferred. The list shall provide Nomenclature, Cage Code, National Stock Number (NSN), if assigned, Part Number, level of maintenance, and price of each item on the list.

Note: New TMDE items, those not identified in U.S. Army Supply Catalogs may require special source and calibration documentation in order to update/ provide data for possible inclusion to the TMDE register (DA Pam 700-21-1). The contractor shall provide all required data for all new TMDE.

[http://www.army.mil/usapa/epubs/xml\\_pubs/p700\\_60/head.xml](http://www.army.mil/usapa/epubs/xml_pubs/p700_60/head.xml)

Note: The following paragraphs are included in this pamphlet to clarify special tools for Army use. Special tools are not identified as components in a SKO SC. Special tools are--

a. Fabricated tools that are made from stocked items of bulk material, such as metal bars, sheets, rods, rope, lengths of chain, hasps, fasteners, and so forth. Fabricated tools are drawing number controlled and documented by functional group codes in RPSTLs and located in TMs as appendices. Fabricated tools are used on a single end item.

b. Tools that are supplied for military applications only (that is, a cannon tube artillery bore brush, BII) or tools having great military use but having little commercial application.

c. Tools designed to perform a specific task for use on a specific end item or on a specific component of an end item and not

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available in the common tool load that supports that end item/unit (for example, a spanner wrench used on a specific Ford engine model and on no other engine in the Army inventory).\~

C.21 PROVISIONING PARTS LIST (PPL) DEVELOPMENT (CDRL A010, A011)

It is not the intent of the Government to prescribe the Automatic Data Process (ADP) software that must be used for processing. Using cost effective ADP systems is encouraged.

C.21.1 Input media requirements for provisioning data: TACOM uses the Army Materiel Command (AMC) developed Commodity Command Standard System (CCSS) applications program. All submissions of Logistics Management Information (LMI)/Provisioning Parts List (PPL) data must be compatible with the Government CCSS Provision On-Line System. (POLS) All digital files are to meet the following criteria:

- (a) American Standard Code for Information Interchange (ASCII)
- (b) No Header Data
- (c) 80 columns in width
- (d) Carriage return code for line end.

C.21.2 Provisioning Contract Control Number (PCCN) and Provisioning Control Code (PCC) will both be furnished by the Government at the time of the Start of Work Meeting, for input by the Contractor.

C.21.3 Provisioning Program: The Contractor shall develop provisioning data for the Bowhead 600 GPM pump in accordance with MIL-PRF-49506, guidelines of MIL-HDBK-502, and Logistics Management Information (LMI) data worksheets found in Attachment 0007.

C.21.3.1 The provisioning data shall contain all data required to support the Bowhead 600 GPM pump:

- (a) The assemblies, subassemblies, spare parts and modules
- (b) Long Lead Time Items in CDRL A005
- (c) Basic Issue Items (BII) in CDRL A006
- (d) Expendable/Durable Items List (EDIL) in CDRL A007
- (e) Components of End Item (COEI) in CDRL A008

C.21.4 The Contractor shall make available two hardcopies of LMI/PPL data and a hardcopy of the Engineering Data for Provisioning (EDFP) drawings at each provisioning conference.

C.21.5 All submissions of the LMI/PPL data must be compatible with our Commodity Command Standard System (CCSS)/Provisioning On-Line System. The data shall be capable of being loaded into our Provisioning Master Record (PMR) without any modifications to the data. CCSS has various methods by which the Contractor can deliver provisioning data and the Government will discuss these methods at the start of work meeting. Each incremental submission shall have at least 800 lines, but no more than 1500 lines. The Government prior to submission shall authorize deliveries of less than 800 lines. Each incremental submission must include at least one major assembly. All submissions will be labeled initial, changes, deletions or any combination of the three transactions. The Contractor shall correct rejections within 21 days and resubmit them electronically in ASCII text with accompanying 80/80 listing. The Contractor shall ensure that only those items that are repair parts or part of the end items top-down generation breakdown will be loaded in the PMR. The Government will reject all others.

C.21.6 Provisioning Screening results will be Contractor developed per CDRL A010 and will be available at each Provisioning Conference to support the level of provisioning submittal under review. The data shall be capable of being loaded into the Provisioning Master Record (PMR) without any modifications to data. No errors are allowed. All submissions will be labeled as Initial, Revised, or Final submissions.

C.21.7 The Contractor will provide to the Government the Provisioning Parts List (PPL) in LSA-036 format, or 1552 hard copy medium per CDRL A011. Contractor will provide a Sample Data (5%of submittal) to TACOM not later than 14 days prior to attending Provisioning Conferences.

C.21.8 Provisioning Parts List (CDRL A011)

The PPL shall be used to determine the range and quantity of support items required for maintenance and repair of the End Item. This includes all repairable Commercial Off The Shelf (COTS) items, unless excluded by the Government. The PPL shall contain all tools, test equipment, repair kits and repair parts sets required to maintain the End Item, component or assembly equipment, unless excluded by the provisioning requirements. The PPL shall be formatted and delivered in accordance with Attachment 0007 (Provisioning) and CDRL A011.

C.22 PROVISIONING AND PRE-PROCUREMENT SCREENING (CDRL A010)

C.22.1 The Contractor shall conduct Pre-Procurement Screening (PPS) for all items to be provisioned using the Federal Logistics Information System (FLIS) for standardization or NSN assignment. Provisioning and Other Pre-Procurement Screening Data is used to identify existing NSNs for an item, validate currency of NSNs, and aid in maximum use of known assets. The Pre-Procurement Screening

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(PPS) shall be formatted and delivered in accordance with CDRL A010. PPS will be made available to Government representatives at each provisioning conference, and will be upgraded along with the Provisioning Parts List (PPL).

C.22.2 Federal Logistics Information System (FLIS). For additional information on requesting software and passwords, refer to the Provisioning Screening User Guide at \\*HYPERLINK "http://www.dlis.dla.mil" [www.dlis.dla.mil](http://www.dlis.dla.mil).

C.22.3 WEBFLIS. For additional information on WEBFLIS, go to \\*HYPERLINK "http://www.dlis.dla.mil/webflis" [www.dlis.dla.mil/webflis](http://www.dlis.dla.mil/webflis) . There are two versions of WEBFLIS: Public Query and Restricted/Sign-on. Anyone with access to the Internet may access the Public Query version. User ids may be obtained by filling out a registration form. The registration forms are found on the DLIS web site. After accessing the Home Page, go into the Forms and Publications section and select the registration form for WEBFLIS. There are two forms available one for Government workers and one for Government sponsored Contractors.

C.22.4 Batch submittals to DLIS. For additional information on how to submit batch requests to DLIS, refer to the Provisioning Screening User Guide at \\*HYPERLINK "http://www.dlis.dla.mil" [www.dlis.dla.mil](http://www.dlis.dla.mil).

C.23. The National Maintenance Work Requirement (NMWR) Component Candidate and Analysis (CDRL A012) and Data Summary (CDRL A013)

C.23.1 The NMWR candidate list consists of repairable assemblies such as, but not limited to:

- (a) Pump
- (b) Engine
- (c) Control panel assembly

C.23.1.1. NMWR Candidate List. The Contractor shall deliver a NMWR candidate list consisting of all parts coded for repair at the Below Depot Level of Maintenance or above, IAW CDRL A012. The source data for this list will be the Maintenance Analysis, performed per paragraph C.6, and the LORA analysis per paragraph C.9. The Government will review, make changes as necessary, and provide the approved NMWR candidate list to the Contractor.

C.23.2. NMWR Data Summary. The Contractor shall perform a data summary for components on the Government approved NMWR candidate list. The summary may be in the Contractor's format, and shall be documented in accordance with Attachment 0007. The NMWR Data summary shall be delivered IAW CDRL A013.

C.23.1.1.2. NMWR Final List. The Government will use the data summary to compare the cost to buy new vs. the cost to rebuild, establish inventory levels, and determine how often this item will need to be repaired. The Government will review this data and finalize the NMWR Candidate listing to identify which items are to have NMWRs developed.

C.24 REQUIREMENTS for Design Change Notice (DCN): (CDRL A017)

C.24.1 The Contractor shall submit Design Change Notices in accordance with CDRL A017, DD Form 1423, and DI-ALSS-81529.

C24.1.1 DCN's shall document any configuration changes after First Article Test (FAT) which have been approved by the appropriate Government authority and shall require the following actions:

- a. DCN's will be submitted with EDFP and will be incorporated in the Final PPL.
- b. DCN's will be incorporated into Technical Manuals, provided approval verification is received from the Government.
- c. DCN data will be provided to the Government by completion of data blocks as shown by the LMI Data Requirements Form in Attachment 0007.
- d. DCN's will be supplied for changes to equipment or parts supplied by the Contractor during the life of this contract.

C.25 Authorized Stock List ([CDRL A018](#))

The contractor shall prepare and submit one ASL listing for government review and contractor/government editing. Once the final list is developed, one ASL is required for every pump fielded at a single time. ASL shall be shipped/over packed with the Bowhead 600 GPM Pumps as they are fielded and shipping instructions will be provided at that time. Preparation guidelines of the proposed ASL are outlined in CDRL A018.

C.26                      Technical Publications

C.26.1                      The Contractor shall deliver one set of Technical Manuals (TMs) Bowhead 600 GPM pump in accordance with Publications Requirements, Attachment 0008, and Department of the Army Repair Parts and Special Tools List (DA RPSTL), Attachment 6, TM Requirements Matrix, Attachment 0008, and CDRLs A014 and A015. The Operator and Maintenance TM developed for the Bowhead 600 GPM pump will be Department of the Army Technical Manuals (DA TMs), DA RPSTL, and Electronic Technical Manuals (ETMs).

C.26.2                      The Contractor shall prepare DA TMs and a DA RPSTL to support the Bowhead 600 GPM pump configuration specified. The Contractor shall deliver the TMs for the Bowhead 600 GPM pump in accordance with Attachment 0008 "Publications Requirements", and Attachment 0010 "Department of the Army Repair Parts and Special Tools List (DA RPSTL)", and the related Contract Data Requirements Lists.

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C.26.3 In addition, the Contractor shall prepare an Electronic Technical Manual (ETM). See Attachments 0008 and 0010. The RPSTL will be pulled from the Army Provisioning Master Record (PMR) from data that the Contractor provides and loads. The Contractor shall combine the RPSTL illustrations with the PMR RPSTL download. The Contractor shall develop the manuals as follows:

- a. TM 10-4320-XXX-13&P Operator, Field and Sustainment Maintenance, and Repair Parts and Special Tools List Manual.
- b. The TMs shall be divided into volumes if the page counts exceed 1500 pages (750 sheets.) An example of the TM Volume Designation would be TM 10-4320-XXX-13&P-1. Item Warranty information will be added to the Manual(s).

C.26.4 The Contractor shall perform a 100% Validation on all data developed for the TMs to ensure accuracy, compatibility and completeness. The Contractor shall ensure that the TM data accurately reflects and supports the Bowhead 600 GPM pump configurations only, including any and all changes to the configurations resulting from testing, vendor parts supply and production line changes. The Contractor shall also perform a 100% review of the ETM to ensure that it meets contract requirements. The Contractors review of ETM shall be hands-on live testing, desk-top review, or a combination of these methods to ensure that the draft ETM is fully operational so that the Government can evaluate their operation, navigation, and structure. The paper copy draft manual and the ETM shall be mutually inclusive of data, text and art, and format. The Contractor shall deliver a Validation Plan, in its own format, informing the Government of its planned Validation schedule, start date, time, and location of validation 30 days prior to start of the Validation. This will allow time for Government to attend and observe the Contractors processes, if the Government so chooses.

C.26.5 The Contractor is required to validate the accuracy and usability of all publication deliverables. The Contractor shall have and use documented QA Review Processes and Inspections. The Government has the right to review validation records and witness validation processes. The Government has the right to verify all publication deliverables. Government reviews and verification may be done through statistical sampling and actual performance; but could include actual performance of all procedures, if deemed necessary by the Government. The Government does not intend to review and verify every task, but relies on complete, careful editing and review by the Contractor. If there are indications that the Contractor has performed incomplete or inadequate QA Reviews, the Government may elect to return products for rework and perform additional reviews on reworked product.

C.26.6 The Government reserves the right to witness the Contractors Validation, and to combine its Verification with the Contractors Validation. The Contractor shall also support the Governments Verification by having at least one person in attendance who was involved in the development of the TMs. This person will take notes of all corrections required and be able to answer questions about the TMs development.

- C.26.7 The Contractor is responsible to:
- a. Document all recommended changes to the Draft Technical Manuals resulting from the Verification
  - b. Sign off on verification record.
  - c. Arrange for the services of a photographer in order to assist in documenting problem areas and changes required to correct errors or omissions in the Draft Technical Manual procedures demonstrated.

C.27 Electronic Technical Manual (ETM) (CDRL A016).

C.27.1 The Contractor shall prepare and deliver an ETM and electronic files in accordance with Attachment 0008, Publication Requirements.

C.27.1.1 The Contractor shall furnish unrestricted copyright releases for all TMs. The Contractor shall ensure that Government has the right to use, copy, and distribute the TMs, ETMs, and electronic data files delivered under this contract, electronically and in hard copy as the Government deems necessary. The Government, at its discretion, will post the final DA-authenticated TMs on the Internet for the soldiers access.

C.28 Correction of Errors.

C.28.1 The Contractor shall correct all errors found in the TMs, ETMs, and electronic data files resulting from Contractor and Government reviews, test or validation/verification at no additional cost to Government.

C.28.2 AMSTA-LC-CJA is designated as the Government RPSTL acceptance activity. If the Contractor receives RPSTL comments or corrections from Government activities other than the Government RPSTL acceptance activity, the Contractor shall forward these comments and corrections to the Government RPSTL acceptance activity for approval or rejection.

C.28.3 Approved Equipment Changes. The Contractor shall incorporate into the TMs and RPSTL, all Government approved changes made to the equipment up to delivery of the final equipment under this contract.

C.28.4 Information based on Engineering Change Proposals (ECP) or equivalents approved for the convenience of the Contractor shall be incorporated into the TMs and RPSTL by the Contractor at no additional cost to the Government.

C.29 Technical Publication Packaging.

Technical Manuals shall be preserved in accordance with MIL-STD-2073, method 31 or 33, and shipped with each Bowhead 600 GPM pump. The



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Government will print the manuals and provide them to the Contractor. The Contractor is responsible for overpacking one set of the approved manuals with each Bowhead 600 GPM pump. The Bowhead 600 GPM pump shall not be shipped without the approved manuals.

C.30 INTEGRATED PRODUCT TEAM:

The Contractor and the Government shall use an Integrated Product Team (IPT) as the primary management vehicle for monitoring the status of the work described in this contract. The IPT will provide a means for coordinating/monitoring schedules and performance. IPT members will include personnel designated by the Contractor, the Contracting Officer, the Contracting Officer's Technical Representative (COTR), and other personnel designated by the Government, which may include Government support Contractors. The Team will use Alpha Contracting techniques to expedite performance of this action, when advantageous to progress.

C.31 Partnering

The Government proposes to enter into a voluntary Partnering arrangement with the Contractor as addressed in the Army Material Command (AMC) Guide: "Partnering for Success. Partnering is a commitment between Government and industry to improve communications and avoid disputes. This is accomplished through an informal process with the primary goal of providing American soldiers with quality supplies and services, on time, and at a reasonable price. Proposals shall include any potential costs associated with the Partnering concept. Information on Partnering can be found at the following website: [http://www.amc.army.mil/amc/command\\_counsel/partnering.html](http://www.amc.army.mil/amc/command_counsel/partnering.html)

\*\*\* END OF NARRATIVE C0001 \*\*\*

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ ITEM		OBLG STAT/ JOB ORD NO			INCREASE/DECREASE AMOUNT		CUMULATIVE AMOUNT	
A003	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	20,746.03	\$	20,746.03
A004	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	11,245.47	\$	11,245.47
A005	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	5,455.48	\$	5,455.48
A006	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	6,011.39	\$	6,011.39
A007	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	6,011.39	\$	6,011.39
A008	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	6,011.39	\$	6,011.39
A009	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	10,609.82	\$	10,609.82
A010	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	814.44	\$	814.44
A011	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	47,773.34	\$	47,773.34
A012	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	5,255.12	\$	5,255.12
A013	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	16,877.91	\$	16,877.91
A014	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	151,025.67	\$	151,025.67
A016	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	1,409.37	\$	1,409.37
A018	P176G1492T 53304700144 A17P51441C17	AB	1 7ZCPDS	\$	0.00	\$	4,301.96	\$	4,301.96
NET CHANGE					\$		293,548.78		

SERVICE	NET CHANGE				ACCOUNTING	INCREASE/DECREASE
<u>NAME</u>	<u>BY ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>			<u>STATION</u>	<u>AMOUNT</u>
Army	AB	21	72035000071C1C09P53304725FB	S20113	W56HZV	\$ 293,548.78
NET CHANGE						\$ 293,548.78

		PRIOR AMOUNT		INCREASE/DECREASE		CUMULATIVE
		<u>OF AWARD</u>		<u>AMOUNT</u>		<u>OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$	379,500.00	\$	293,548.78	\$	673,048.78

<u>ACRN</u>	<u>EDI ACCOUNTING CLASSIFICATION</u>					
AB	21	070920350000	S20113	71C1C095330470014425FB	7ZCPDSS20113	W56HZV

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SECTION J - LIST OF ATTACHMENTS

List of Addenda	Title	Date	Number of Pages	Transmitted By
Exhibit A	CDRL A001 - A017	06-MAY-2007	002	DATA
Attachment 0005	ARMY'S TWO LEVEL MAINTENANCE MAC HEADER		001	EMAIL
Attachment 0006	MAINTENANCE ANALYSIS		001	EMAIL
Attachment 0007	PROVISIONING		008	EMAIL
Attachment 0008	PUBLICATIONS REQUIREMENTS - DEPT OF ARMY TM'S		004	EMAIL
Attachment 0009	TABLE A-II. TM REQTS MATRIX FOR BOWHEAD 600 GPM PUMP		014	EMAIL
Attachment 0010	REPAIR PARTS AND SPECIAL TOOLS LIST REQUIREMENTS		011	EMAIL
Attachment 0011	NATIONAL MAINTENANCE WORK REQ'T DATA SUMMARY		001	EMAIL

CONTRACT DATA REQUIREMENTS LIST      Form Approval    OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

- A. CONTRACT LINE ITEM NO 0002
- B. EXHIBIT:
- C. CATEGORY:    PACKAGING
- D. SYSTEM/ITEM: 600 GPM PUMP
- E. CONTRACT/PR NO.:
- F. CONTRACTOR: BOWHEAD MANUFACTURING

- 1. DATA ITEM NO.      A001
- 2. TITLE OF DATA ITEM:    Special Packaging Instructions (SPI)
- 3. SUBTITLE:
- 4. AUTHORITY (Data Acquisition Document No.)    DI-PACK-80121B
- 5. CONTRACT REFERENCE:C.5.2
- 6. REQUIRING OFFICE: AMSTA-LC-LEAP
- 7. DD250 REQ: LT
- 8. APP CODE:
- 9. DIST. STATEMENT REQUIRED:    A
- 10. FREQUENCY:    AS REQ
- 11. AS OF DATE: SEE BLK 16
- 12. DATE OF FIRST SUB: SEE BLK 16
- 13. DATE OF SUBS.SUB:

14. DISTRIBUTION	B. COPIES	DRAFT/FINAL
AMSTA-LC-LEAP	1	1 / 1
15. TOTAL:		1 / 1

16. REMARKS:

A cover letter or notice of submission for each data deliverable shall be sent to the Systems Acquisition Manager (SAM), and to the Contract Specialist (buyer).

Special Packaging Instruction: Draft will be submitted NLT 25May2007. The Government will review draft and provide comments within 5 working days of receipt. Contractor will consider Government comments prior to rail impact testing. Final submittal shall be 7 days after successful completion of rail impact test. The Government will review final submission and provide comments within 7 days of receipt. Contractor shall respond within 7 days after receipt of Government comments.

Special Packaging Instruction must be submitted electronically in a format that is readable and editable by the Government (currently MS Word Office 2000)

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 29 of 47</b>
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

17. PRICE GROUP:  
18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: NANCY ERWIN	I. APPROVED BY
H. DATE: 27 April 2007	J. DATE

DD FORM 1423-E, MAY 99

CONTRACT DATA REQUIREMENTS LIST Form Approval OMB No. 0704-0188  
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO 0002  
B. EXHIBIT:  
C. CATEGORY:  
D. SYSTEM/ITEM: 600 GPM PUMP  
E. CONTRACT/PR NO.:  
F. CONTRACTOR: BOWHEAD MANUFACTURING

1. DATA ITEM NO. A002  
2. TITLE OF DATA ITEM: REPORT, RECORD OF MEETING MINUTES  
3. SUBTITLE:  
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81505  
5. CONTRACT REFERENCE:C.7, C.9  
6. REQUIRING OFFICE: AMSTA-LC-CJAPB  
7. DD250 REQ: LT  
8. APP CODE:  
9. DIST. STATEMENT REQUIRED: A  
10. FREQUENCY: AS REQ  
11. AS OF DATE: SEE BLK 16  
12. DATE OF FIRST SUB: SEE BLK 16  
13. DATE OF SUBS.SUB: SEE BLK 16

14. DISTRIBUTION	B. COPIES	PAPER	E-MAIL	CD-ROM
AMSTA-LC-CJAPB		0	1	0
15. TOTAL:		0	1	0

16. REMARKS:  
A002 REPRESENTS BOWHEAD 600 GPM PUMP

THE CONTRACTOR SHALL COMPILE AND DISTRIBUTE PROCUREMENT CONTRACTING OFFICER (PCO) APPROVED MINUTES NOT LATER THAN 5 DAYS AFTER EACH MEETING.  
  
THE MINUTES SHALL BE SUBMITTED VIA EMAIL TO ALL ATTENDEES.

17. PRICE GROUP:  
18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: DARCY S. BELL MAINTENANCE SYSTEM MANAGER	I. APPROVED BY: FRANK BOSLEY TEAM LEADER
H. DATE: 20 April 2007	J. DATE: 20 APR 07

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 30 of 47</b>
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

DD FORM 1423-E, MAY 99

CONTRACT DATA REQUIREMENTS LIST Form Approval OMB No. 0704-0188  
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A. CONTRACT LINE ITEM NO 0002  
B. EXHIBIT:  
C. CATEGORY:  
D. SYSTEM/ITEM: 600 GPM PUMP  
E. CONTRACT/PR NO.:  
F. CONTRACTOR: BOWHEAD MANUFACTURING

1. DATA ITEM NO. A003  
2. TITLE OF DATA ITEM: LOGISTICS MANAGEMENT INFORMATION (LMI) SUMMARIES  
3. SUBTITLE: MAINTENANCE ANALYSIS  
4. AUTHORITY (Data Acquisition Document No.) DI-ALSS-81530  
5. CONTRACT REFERENCE:C.11  
6. REQUIRING OFFICE: AMSTA-LC-CJAPB  
7. DD250 REQ: LT  
8. APP CODE:  
9. DIST. STATEMENT REQUIRED: A  
10. FREQUENCY: AS REQ  
11. AS OF DATE: SEE BLK 16  
12. DATE OF FIRST SUB: SEE BLK 16  
13. DATE OF SUBS.SUB: SEE BLK 16

14. DISTRIBUTION	B. COPIES	PAPER	E-MAIL	CD-ROM
AMSTA-LC-CJAPB		DRAFT 1	0	0
		FINAL 0	1	0
15. TOTAL:		1	1	0

16. REMARKS:  
A003 REPRESENTS THE BOWHEAD 600 GPM PUMP  
AS CLARIFIED AND TAILORED BY ATTACHMENT 0006, "MAINTENANCE ANALYSIS"

THE DRAFT MAINTENANCE ANALYSIS (MA) SHALL BE DELIVERED AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. CONTRACTOR SHALL HAVE AVAILABLE AT EACH FOLLOW-ON MPP REVIEW/PROVISIONING CONFERENCE, CONTRACTOR VALIDATION, GOVERNMENT VERIFICATION THE MAINTENANCE ANALYSIS (MA) FOR GOVERNMENT REVIEW AND COMMENTS.

THE CONTRACTOR SHALL MAINTAIN THE MAINTENANCE ANALYSIS FOR THE LIFE OF THE CONTRACT.

THE CONTRACTOR SHALL SUBMIT THE FINAL APPROVED MA, TO INCLUDE ALL CHANGES, DELETES, OR NEW MAINTENANCE PROCEDURES AS A RESULT OF GOVERNMENT REVIEWS, 21 DAYS PRIOR TO THE COMPLETION OF THE CONTRACT. THE SUBMITTAL SHALL BE IN SPREADSHEET FORMAT, COMPATIBLE WITH WINDOWS 2000 AND XP.

CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

DD 250 DUE WITH LAST SUBMISSION ONLY.

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

NOTE: HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:  
U.S. ARMY TACOM  
6501 E. 11 MILE, MAILSTOP 120  
AMSTA-LC-CJAPB, ATTN: DARCY BELL  
WARREN, MI 48397-5000

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page</b> 31 <b>of</b> 47
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

17. PRICE GROUP:  
18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: DARCY S. BELL MAINTENANCE SYSTEM MANAGER	I. APPROVED BY: FRANK BOSLEY TEAM LEADER
H. DATE: 20 April 2007	J. DATE: 20 APR 07

DD FORM 1423-E, MAY 99

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A004  
2. Title of Data Item: MAINTENANCE ALLOCATION CHART (MAC)  
3. Subtitle:  
4. Authority: DI-ALSS-81530  
5. Contract Reference: C.15  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ:  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB				
		Preliminary	1	0	0
		Draft MAC	1	0	0
		Final	0	1	0
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:  
A004 REPRESENTS Bowhead 600 GPM Pump

AS CLARIFIED AND TAILORED BY ATTACHMENT 0006, "MAINTENANCE ANALYSIS"; ATTACHMENT 0005 ARMY'S TWO LEVEL MAINTENANCE MAC HEADER; AND ATTACHMENT 0008 PUBLICATIONS REQUIREMENTS

THE MAC WILL BE INCORPORATED INTO THE TECHNICAL MANUALS.  
THE CONTRACTOR WILL PROVIDE A PLAN OF STRATEGY AT THE START OF WORK MEETING.

THE PRELIMINARY MAINTENANCE ALLOCATION CHART (MAC) SHALL BE DELIVERED AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. THE MAC SHALL

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page</b> 32 <b>of</b> 47
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

DEFINE THE FUNCTIONAL GROUP NUMBERS FOR ALL ASSEMBLIES AND SUB-ASSEMBLIES FOR FIELD LEVEL OF MAINTENANCE (ATTACHMENT 0005 AND 0008). THE MAC SHALL BE MADE AVAILABLE AT ALL FOLLOW-ON PROVISIONING OR MPP CONFERENCES. THE MAC SHALL BE UPDATED FOLLOWING THE COMPLETION OF ALL PROVISIONING AND MPP CONFERENCES TO REFLECT THE CURRENCY OF THE MAC. THE SCOPE OF WORK PARAGRAPH C.10 DESCRIPTION DEFINES SOURCE REQUIREMENTS FOR MAC DEVELOPMENT OF FUNCTIONAL GROUPS, REPAIR TASK AND REPAIR TIME INTERVAL DEFINED IN ACCORDANCE WITH AMC-P-700-25, MIL-PRF-49506B, AND ATTACHMENTS 0005 AND 0008.

THE CONTRACTOR WILL INCORPORATE ALL PROVISIONING CONFERENCE COMMENTS AND SUBMIT A DRAFT MAC NO LATER THAN 21 DAYS BEFORE THE GOVERNMENT VERIFICATION. Government Verification will be held 3-14 September 2007 at a location to TBD. THE GOVERNMENT WILL PROVIDE COMMENTS AT THE ITS VERIFICATION.

THE CONTRACTOR WILL INCORPORATE ALL VERIFICATION COMMENTS SUBMIT FINAL MAC TO THE GOVERNMENT Concurrently with the FDEP copy of THE MANUAL. THE FINAL MAC WILL BE ACCOMPANIED BY A DD 250.

THE FINAL MAC SHALL BE INCORPORATED INTO THE CAMERA READY HARD COPY AND ELECTRONIC COPY OF THE APPLICABLE TECHNICAL MANUALS (TM). THE FINAL DELIVERY SHALL ALSO INCLUDE A COMPLETE ETM IN SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF). THE ELECTRONIC SUBMISSIONS SHALL BE ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO.

CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:

U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN,  
MI 48397-5000

G. Prepared By: Darcy S. Bell  
Maintenance System Manager  
AMSTA-LC-CJAPB

I. Approved By: Frank Bosley  
Team Leader  
AMSTA-LC-CJAPB

H. Date: 20 April 2007

J. Date: 20 April 2007

#### CONTRACT DATA REQUIREMENTS LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A005  
2. Title of Data Item: LOGISTICS MANAGEMENT INFORMATION (LMI) DATA PRODUCT(S)  
3. Subtitle: LONG LEAD TIME ITEMS (LLTI)  
4. Authority: DI-ALSS-81529  
5. Contract Reference: C.16  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ:  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16



<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page</b> 33 <b>of</b> 47
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB				
		Preliminary	1	0	0
		Draft	1	0	0
		Final	0	1	0
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:  
A005 REPRESENTS Bowhead 600 GPM Pump  
AS CLARIFIED AND TAILORED BY ATTACHMENT 0007 PROVISIONING  
CONTRACTOR WILL PROVIDE AN OUTLINE OF ITS STRATEGY AT START OF WORK MEETING.

THE DRAFT LONG LEAD TIME ITEMS LIST (LLTI) REPORT SHALL BE SUBMITTED AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. THE GOVERNMENT SHALL REVIEW THE DRAFT LLTI IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED ON THE LMI WORKSHEET ATTACHMENT 0007 AND PROVISIONING SCOPE OF WORK PARAGRAPH C.11. THE GOVERNMENT WILL PROVIDE COMMENTS TO THE CONTRACTOR WITHIN 21 DAYS AFTER RECEIPT. THE CONTRACTOR SHALL MAKE THE LLTI AVAILABLE AT ALL FOLLOW-ON PROVISIONING CONFERENCES AND MPP CONFERENCES. THE LLTI WILL BE ACCOMPANIED BY EDFP WITH PLISN.

THE CONTRACTOR SHALL INCORPORATE COMMENTS AND PROVIDE A DRAFT LLTI NOT LATER THAN 21 DAYS BEFORE THE GOVERNMENTS VERIFICATION. THE GOVERNMENT WILL PROVIDE COMMENTS AT ITS VERIFICATION. THE CONTRACTOR WILL INCORPORATE COMMENTS AND SUBMIT A FINAL LLTI Concurrently with the FDEP copy of THE MANUAL

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

ALL SUBMISSIONS SHALL BE ELECTRONIC AND ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO. HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:  
U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN, MI 48397

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
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A. Contract Line Item No.: 0002  
B. Exhibit:

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 34 of 47
	PIIN/SIIN W56HZV-07-C-0409	MOD/AMD P00001	

Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A006  
2. Title of Data Item: LOGISTICS MANAGEMENT INFORMATION (LMI) DATA PRODUCT(S)  
3. Subtitle: BASIC ISSUE ITEMS (BII) LIST  
4. Authority: DI-ALSS-81529  
5. Contract Reference: C.17  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ:  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB				
		Preliminary	1	0	0
		Draft	1	0	0
		Final	0	1	0
15. TOTAL:			2	1	0

#### Contract Data Requirements List

16. Remarks:  
A006 REPRESENTS Bowhead 600 GPM Pump  
AS CLARIFIED AND TAILORED BY ATTACHMENT 0007 PROVISIONING

THE BII WILL BE INCORPORATED INTO THE TECHNICAL MANUAL AND PROVISIONING PARTS LIST AS REQUIRED.

THE PRELIMINARY BASIC ISSUE ITEMS (BII) LIST SHALL BE SUBMITTED AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. THE GOVERNMENT SHALL REVIEW THE DRAFT BII LIST FOR THE REQUIREMENTS SPECIFIED IN PROVISIONING SCOPE OF WORK PARAGRAPH C.12 AND ATTACHMENT 0007. THE GOVERNMENT WILL PROVIDE COMMENTS AT THE PROVISIONING CONFERENCE.

CONTRACTOR WILL INCORPORATE PROVISIONING CONFERENCE COMMENTS AND CHANGES AND SUBMIT A DRAFT BII TO GOVERNMENT 21 DAYS BEFORE THE GOVERNMENT VERIFICATION. THE GOVERNMENT WILL PROVIDE COMMENTS AT ITS VERIFICATION.

THE FINAL BII WILL INCORPORATE ALL VERIFICATION COMMENTS AND SUBMIT Concurrently with the FDEP copy of THE MANUAL. THE FINAL BII SHALL BE ACCOMPANIED BY A DD 250.

CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

ALL SUBMISSIONS SHALL BE ELECTRONIC AND ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO. HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:

U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN, MI 48397

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 35 of 47
	PIIN/SIIN W56HZV-07-C-0409	MOD/AMD P00001	

**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.: 0002  
 B. Exhibit:  
 C. Category:  
 D. System/Item: Bowhead 600 GPM pump  
 E. Contract/Pr No.: W56HZV-07-C-0409  
 F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A007  
 2. Title of Data Item: LOGISTICS MANAGEMENT INFORMATION (LMI) DATA PRODUCT(S)  
 3. Subtitle: EXPENDABLE/DURABLE ITEMS LIST (EDIL)  
 4. Authority: DI-ILSS-81529  
 5. Contract Reference: C.18  
 6. Requiring Office: AMSTA-LC-CJAPB  
 7. DD250 REQ: DD250  
 8. App Code: A  
 9. Dist. Statement Required: A  
 10. Frequency: As Req  
 11. As Of Date: See Block 16  
 12. Date of First Sub: See Block 16  
 13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB				
		Preliminary	1	0	0
		Draft	1	0	0
		Final	0	1	0
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:  
 A007 REPRESENTS Bowhead 600 GPM Pump  
 AS CLARIFIED AND TAILORED BY ATTACHMENT 0007 PROVISIONING

THE EDIL WILL BE INCORPORATED INTO THE TECHNICAL MANUAL AS REQUIRED.

CONTRACTOR WILL SUBMIT A PRELIMINARY EXPENDABLE/DURABLE ITEMS LIST (EDIL) AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. THE EDIL WILL BE IN THE LMI FORMAT AS PER ATTACHMENT 0007, MIL-STD 49506B, AND THE SCOPE OF WORK PARAGRAPH C.13. THE GOVERNMENT SHALL REVIEW THE DRAFT EDIL FOR THE REQUIREMENTS SPECIFIED.THE GOVERNMENT WILL PROVIDE COMMENTS AT THE PROVISIONING CONFERENCE.

THE EDIL SHALL BE MADE AVAILABLE AT ALL FOLLOW ON PROVISIONING CONFERENCES AND MPP CONFERENCES.

THE CONTRACTOR SHALL INCORPORATE ALL PROVISIONING CONFERENCE COMMENTS AND SUBMIT A DRAFT EDIL NOT LATER THE 21 DAYS BEFORE THE GOVERNMENT VERIFICATION.

CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

THE FINAL EDIL WILL INCORPORATE ALL GOVERNMENT VERIFICATION COMMENTS AND SHALL BE SUBMITTED TO THE GOVERNMENT Concurrently with the FDEP copy of THE MANUAL. THE FINAL EDIL SHALL BE ACCOMPANIED BY A DD 250. THE FINAL DELIVERY SHALL ALSO INCLUDE A COMPLETE ETM IN SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

ELECTRONIC SUBMISSIONS SHALL BE ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 36 of 47</b>
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:  
U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN, MI 48397-5000

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A008  
2. Title of Data Item: LOGISTICS MANAGEMENT INFORMATION (LMI) DATA PRODUCT(S)  
3. Subtitle: COMPONENTS OF END ITEMS LIST (COEI)  
4. Authority: DI-ALSS-81529  
5. Contract Reference: C.19  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ: DD250  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB				
		Preliminary	1	0	0
		Draft	1	0	0
		Final	0	1	0
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:  
A008 REPRESENTS Bowhead 600 GPM Pump  
AS CLARIFIED AND TAILORED BY ATTACHMENT 0007 PROVISIONING

THE COEI WILL BE INCORPORATED INTO THE TECHNICAL MANUALS AND PROVISIONING PARTS LIST AS REQUIRED.

THE COEI SHALL BE DEVELOPED IN ACCORDANCE WITH ATTACHMENT 0007 AND SCOPE OF WORK PARAGRAPH C.14. SUBMITTALS WILL BE ACCOMPANIED BY ENGINEERING DATA FOR PROVISIONING (EDFP). THE CONTRACTOR SHALL SUBMIT A PRELIMINARY COEI THE AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. THE GOVERNMENT SHALL REVIEW THE DRAFT COEI FOR THE REQUIREMENTS SPECIFIED. THE GOVERNMENT WILL PROVIDE COMMENTS AT THE PROVISIONING CONFERENCE.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page</b> 37 <b>of</b> 47
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

CONTRACTOR WILL INCORPORATE PROVISIONING CONFERENCE COMMENTS AND CHANGES AND SUBMIT A DRAFT COEI TO GOVERNMENT 21 DAYS BEFORE THE GOVERNMENTS VERIFICATION.

CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

THE FINAL COEI WILL INCORPORATE ALL VERIFICATION COMMENTS AND BE SUBMITTED Concurrently with the FDEP copy of THE MANUAL. ONLY THE FINAL COEI SHALL BE ACCOMPANIED BY A DD 250.

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

THE ELECTRONIC SUBMISSIONS SHALL BE ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO. HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:  
U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN, MI 48397-5000

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A009  
2. Title of Data Item: TOOLS & TEST EQUIPMENT  
3. Subtitle:  
4. Authority: DI-ADMN-81505  
5. Contract Reference: C.20  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ:  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB		2	1	0
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 38 of 47</b>
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

A009 REPRESENTS Bowhead 600 GPM Pump

Initial draft list is due 90 days after contract award. The government shall review the draft stte list IAW REQUIREMENTS specified in the sow and provide comments nlt 30 days after receipt. the contractor shall correct stte list and provide final corrected copy to the government nlt 30 days after reciept. Initial and subsequent stte list submissions shall be accompanied by a letter of transmittal. Only the final stte list submission shall be accompanied by a dd form-250 (dd-250).

electronic distribution for this cdrl shall be made to the following:  
bruce.loeffler @us.army.mil

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST

Form Approval OMB No. 0704-0188

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A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A010  
2. Title of Data Item: LOGISTICS MANAGEMENT INFORMATION (LMI) DATA PRODUCT(S)  
3. Subtitle: PROVISIONING AND PRE-PROCUREMENT SCREENING  
4. Authority: DI-ILSS-81529  
5. Contract Reference: C.21  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ: DD250  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB				
		Preliminary	1	0	0
		Draft	1	0	0
		Final	0	1	0
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:  
A010 REPRESENTS Bowhead 600 GPM Pump

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page</b> 39 <b>of</b> 47
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

PROVISIONING AND PRE-PROCUREMENT SCREENING IS DUE CONCURRENT WITH EACH SUBMISSION OF PROVISIONING PARTS LISTS (PPL). SEE CDRL A010 FOR DELIVERY SCHEDULE.

GOVERNMENT WILL PROVIDE UPON REQUEST CONTRACTOR ACCESS TO THE DEFENSE LOGISTIC INFORMATION SYSTEM (DLIS) FOR FREE SCREENING INFORMATION. SCREENING SHALL ACCOMPANY THE SUBMISSIONS OF PPL FOR THE Bowhead 600 GPM pump CONFIGURATION. THE SCREENING RESULTS SHALL BE IN PROVISIONING LIST ITEM SEQUENCE NUMBER (PLISN) SEQUENCE FINAL SCREENING RESULTS SHALL BE CONCURRENT WITH FINAL PPL SUBMISSION. CONTENT AND FORMAT FOR THE PROVISIONING AND OTHER PRE-PROCUREMENT SCREENING DATA SHALL DEPICT NATIONAL STOCK NUMBER (NSN) HIT/NO HIT FOR ALL ITEMS LISTED IN THE PPL. CONTRACTOR SHALL ENSURE THESE SCREENING RESULTS ARE AVAILABLE AT EACH PROVISIONING CONFERENCE AND VALIDATION/VERIFICATION. CONTRACTOR SHALL INCORPORATE CURRENT PART NUMBERS AND NATIONAL STOCK NUMBERS INTO PPL.

FINAL SUBMISSION WILL BE ACCOMPANIED BY A DD250.  
CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

ELECTRONIC SUBMISSIONS SHALL BE ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO. HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:

U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN, MI 48397	
G. Prepared By: Darcy S. Bell Maintenance System Manager AMSTA-LC-CJAPB	I. Approved By: Frank Bosley Team Leader AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
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A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A011  
2. Title of Data Item: LOGISTICS MANAGEMENT INFORMATION (LMI) DATA PRODUCT(S)  
3. Subtitle: PROVISIONING PARTS LIST (PPL)  
4. Authority: DI-ILSS-81529  
5. Contract Reference: C.21  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ: DD250  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses AMSTA-LC-CJAPB	B. COPIES DEP	PAPER 6	E-MAIL 0	CD-ROM 0
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CONTINUATION SHEET	Reference No. of Document Being Continued		Page 40 of 47
	PIIN/SIIN W56HZV-07-C-0409	MOD/AMD P00001	
Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C			

	FDEP	2	0	0
15. TOTAL:		8	0	0

Contract Data Requirements List

16. Remarks:  
A011 REPRESENTS Bowhead 600 GPM Pump  
AS CLARIFIED AND TAILORED BY ATTACHMENT 0007 PROVISIONING

THE PPL SHALL BE INCORPPRATED INTO THE RPSTL AND INCLUDED IN THE ELECTRONIC ETM IN SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).

EACH PROVISIONING PARTS LIST (PPL) SUBMITTAL MUST BE ACCOMPANIED WITH SUPPORTING ENGINEERING DATA FOR PROVISIONING (EDFP) THAT MATCHES THE PPL SUBMITTED. MISSING PPL DATA IN ANY SUBMITTAL WILL RENDER THE PPL INCOMPLETE AND NON-ACCEPTABLE. SUCH SUBMITTALS WILL REMAIN IN A NON-ACCEPTABLE STATUS UNTIL APPROVED PPL AND COMPLETE EDFP SUPPORTING DOCUMENTATION IS PROVIDED.

PPL WILL BE DEVELOPED IN TOP DOWN, BREAK DOWN, DISASSEMBLY SEQUENCE THAT MATCHES THE DEFINED MAINTENANCE LEVELS AND FUNCTIONAL GROUPS OF THE MAC. EDFP WILL ALSO BE PRESENTED IN THIS SAME SEQUENCE AS THE PPL WITH PLISNS FOR PIECE PARTS/ASSEMBLIES AND PART NUMBER ANNOTATED ON THE EDFP. ALL CONFIGURATION CHANGES (DCN) WILL BE INCORPORATED AT THE END OF THE PROCUREMENT EFFORT IN THE FINAL PPL AND ACCOMPANIED BY EDFP.

THE PRELIMINARY PPL SHALL BE DELIVERED AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. THE PPL SHALL BE PREPARED ACCORDING TO AMC-P-700-25, THE SCOPE OF WORK PARAGRAPH C.16, AND ATTACHMENT 0007 OF THIS CONTRACT. THE GOVERNMENT SHALL REVIEW THE PRELIMINARY PPL FOR THE REQUIREMENTS SPECIFIED IN PROVISIONING SCOPE OF WORK PARAGRAPH C.16 AND ATTACHMENT 0007. THE GOVERNMENT WILL PROVIDE COMMENTS AT THE PROVISIONING CONFERENCE. AN ELECTRONIC SUBMITTAL INCORPORATING COMMENTS, CORRECTIONS FROM THE PROVISIONING CONFERENCE IS DUE 21 DAYS AFTER THE CONFERENCE.

PPL SHALL BE MADE AVAILABLE AT ALL FOLLOW ON PROVISIONING CONFERENCES. AN ELECTRONIC SUBMITTAL INCORPORATING COMMENTS FROM THE FOLLOW ON PROVISIONING CONFERENCE IS DUE 21 DAYS AFTER THE CONFERENCES.

DRAFT PPL SHALL BE DELIVERED AT THE GOVERNMENT VERIFICATION. THE CONTRACTOR SHALL INCORPORATE VERIFICATION COMMENTS INTO A FINAL PPL SUBMITTAL. THE FINAL PPL AND EDFP WILL BE DELIVERED Concurrently with the FDEP copy of THE MANUAL. ONLY THE FINAL PPL WILL BE ACCOMPANIED BY DD 250.

CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

ALL CORRECTIONS AND CHANGES THAT REFLECT FINAL CONFIGURATION MUST BE INCLUDED IN THE FINAL PPL.  
COMMERCIAL ITEM (CI), COMMERICAL OFF THE SHELF (COTS) ITEMS WILL BE IDENTIFIED IN THE PPL TO THE LEVEL OF PARTS IDENTIFICATION REQUIRED FOR MAC MAINTENANCE LEVELS. SUPPORTING COTS PTD MUST ACCOMPANY ALL PPL SUBMISSION IN A TOP-DOWN BREAK DOWN, DISASSEMBLY SEQUENCE THAT INTERFACES WITH THE PPL SEQUENCE.

ELECTRONIC SUBMISSIONS SHALL BE ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO.

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:  
U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN, MI 48397-5000

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188

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Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A012  
2. Title of Data Item: NMWR CANDIDATES LIST  
3. Subtitle:  
4. Authority: DI-ADMN-81505  
5. Contract Reference: C.23  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ:  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJAPB				
		Draft	1	0	0
		Final	2	0	1
15. TOTAL:			3	0	1

Contract Data Requirements List

16. Remarks:  
A012 Represents Bowhead 600 GPM pump

THE CONTRACTOR SHALL DELIVER DRAFT NMWR CANDIDATES LIST AT THE PROVISIONING CONFERENCE 28 Aug - 30 Aug 2007. THE GOVERNMENT WILL REVIEW DRAFT IAW REQUIREMENTS SPECIFIED IN THE SOW AND PROVIDE COMMENTS NLT 30 DAYS AFTER RECEIPT. THE CONTRACTOR SHALL SUBMIT FINAL CORRECTED LIST 30 DAYS AFTER RECEIPT OF FINAL GOVERNMENT COMMENTS. DELIVERY SHALL BE IN CONTRACTORS FORMAT. FINAL SUBMITTAL SHALL BE ACCOMPANIED BY A DD250. CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL. GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJA WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST

Form Approval OMB No. 0704-0188  
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A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 42 of 47</b>
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

- 1. Data Item No. A013
- 2. Title of Data Item: NMWR DATA SUMMARY
- 3. Subtitle:
- 4. Authority: DI-ADMN-81505
- 5. Contract Reference: C.23
- 6. Requiring Office: AMSTA-LC-CJAPB
- 7. DD250 REQ:
- 8. App Code: A
- 9. Dist. Statement Required: A
- 10. Frequency: As Req
- 11. As Of Date: See Block 16
- 12. Date of First Sub: See Block 16
- 13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses AMSTA-LC-CJAPB	B. COPIES	PAPER	E-MAIL	CD-ROM
		Draft	1	0	0
		Final	2	0	1
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:

A013 Represents Bowhead 600 GPM pump

As clarified and tailored by Attachment 0011 (National Maintenance Work Requirement (NMWR) Data Summary). THE CONTRACTOR SHALL DELIVER THE DRAFT NMWR DATA SUMMARY 30 DAYS AFTER RECEIPT OF THE GOVERNMENT APPROVED NMWR CANDIDATES LIST (REFERENCE CDRL A011). THE GOVERNMENT WILL REVIEW DRAFT IAW REQUIREMENTS SPECIFIED IN THE SOW AND PROVIDE COMMENTS NLT 30 DAYS AFTER RECEIPT. THE CONTRACTOR SHALL PROVIDE FINAL NMWR DATA SUMMARY 30 DAYS AFTER RECEIPT OF GOVERNMENT COMMENTS. DELIVERY SHALL BE ELECTRONIC IN MICROSOFT EXCEL ELECTRONIC FORMAT. GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJA WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS. FINAL SUBMITTAL SHALL BE ACCOMPANIED BY A DD250. CONTRACTOR CAN ONLY INVOICE UPON FINAL GOVERNMENT APPROVAL.

G. Prepared By: Darcy S. Bell	I. Approved By: Frank Bosley
Maintenance System Manager	Team Leader
AMSTA-LC-CJAPB	AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.:	0002
B. Exhibit:	
C. Category:	
D. System/Item:	Bowhead 600 GPM pump
E. Contract/Pr No.:	W56HZV-07-C-0409
F. Contractor:	BOWHEAD MANUFACTURING COMPANY, L.L.C.

- 1. Data Item No. A014
- 2. Title of Data Item: Technical Manual
- 3. Subtitle: TM-10-4320-XXX-13&P
- 4. Authority: MIL-STD-40051-2
- 5. Contract Reference: C.26, C.27, C28

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 43 of 47</b>
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

6. Requiring Office: AMSTA-LC-CJL  
7. DD250 REQ: DD250  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJL				
		DEP	6	0	0
		FDEP	2	0	0
15. TOTAL:			8	0	0

16. Remarks:  
A013 Represents Bowhead 600 GPM pump  
As clarified by Attachments 0008, 0009 and 0010  
TM 10-4320-XXX-13&P

Deliver validation plan NLT 1 august 2007

Draft Equipment Publication (DEP). Deliver six paper copies of the Validated operator Field and Sustainment Technical Manual with RPSTL for the Bowhead 600 GPM pump NLT 22 October 2007 (Note: several submissions of DEP CCSS RPSTLs may be required before the CCSS files are ready for FDEP download). The government reserves the right to request an electronic copy. contractor shall support the government verification of these manuals. verification will be scheduled for 1 november 2007 through 14 december 2007. verification dates may be subject to change at the governments discretion.

Final Draft Equipment Publication (FDEP). Deliver two paper copies of operator Field and Sustainment Technical Manual with RPSTL for the Bowhead 600 GPM pump, NLT 7 January 2008. The Government will review and provide comments on the FDEP NLT 19 January 2008. The review process of the FDEP will continue until the Government accepts an FDEP submission.

Final Reproducible Copy (FRC). Deliver one paper copy of Operator Field and Sustainment Technical Manual with rpstl, with the pages numbered in non-folio pencil, for the Bowhead 600 GPM pump, 10 days after Government acceptance of the FDEP. The contractor shall deliver one electronic copy of assembly/running sheets in MS Word format and the source data files in Adobe framemaker (or equivalent) format.

Contractor shall overpack one set of the technical manuals with each Bowhead 600 GPM pump delivered. The Government will print the manuals.

A DD250 must accompany final submittal.  
Contractor can only invoice upon final Government approval.  
Government receipt of documentation does not constitute acceptance. AMSTA-LC-CJL will provide notice of acceptance for the documentation through the PCO to contractor within the established time frame and guidelines called out in the Scope of Work and applicable CDRLS.

G. Prepared By: Anthony D. Arakelian	I. Approved By: Pam Tinsley
Publications Specialist	Team Leader
AMSTA-LC-CJL	AMSTA-LC-CJL
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

- A. Contract Line Item No.: 0002  
B. Exhibit:

Name of Offeror or Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C

C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A015  
2. Title of Data Item: RESERVED  
3. Subtitle:  
4. Authority:  
5. Contract Reference:  
6. Requiring Office:  
7. DD250 REQ:  
8. App Code:  
9. Dist. Statement Required:  
10. Frequency:  
11. As Of Date:  
12. Date of First Sub:  
13. Date of Subs:

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
15. Total:				0	0

16. Remarks:

G. Prepared By: I. Approved By:

H. Date: J. Date:

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.: 0002  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A016  
2. Title of Data Item: Electronic Technical Manuals (ETM)

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 45 of 47</b>
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

3. Subtitle:
4. Authority: MIL-STD-40051-2
5. Contract Reference: C.27
6. Requiring Office: AMSTA-LC-CJL
7. DD250 REQ: DD250
8. App Code: A
9. Dist. Statement Required: A
10. Frequency: As Req
11. As Of Date: See Block 16
12. Date of First Sub: See Block 16
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses	B. COPIES	PAPER	E-MAIL	CD-ROM
	AMSTA-LC-CJL				
		DEP	6	0	0
		FDEP	2	0	0
15. TOTAL:			2	1	0

16. Remarks:  
A016 Represents Bowhead 600 GPM pump  
As clarified by Attachments 0008, 0009, 0010

contractor shall deliver an electronic technical manual (etm) and electronic data files 10 days after government acceptance of fdeps. the etm will include all of the bowhead 600 gpm tms. the government will review the etm for operation, navigation, and structure. the government will provide comments/acceptance within 30 days. you shall use an adobe acrobat format, without linking, on a cd-rom using iso 9660 format.

contractor shall deliver two cds (CONTAINING PDF AND WORD-PROCESSING FILES IN MS WORD OR EQUIVALENT FORMAT) FOR FINAL ETM(S) AND ELECTRONIC DATA FILES 10 DAYS AFTER GOVERNMENT ACCEPTANCE OF THE ETM.

A DD250 SHALL ACCOMPANY THE FINAL SUBMITTAL.

Contractor can only invoice upon final Government approval.  
Government receipt of documentation does not constitute acceptance. AMSTA-LC-CJL will provide notice of acceptance for the documentation through the PCO to contractor within the established time frame and guidelines called out in the Scope of Work and applicable CDRLS.

G. Prepared By: Anthony D. Arakelian Publications Specialist AMSTA-LC-CJL	I. Approved By: Pam Tinsley  Team Leader AMSTA-LC-CJL
H. Date: 20 April 2007	J. Date: 20 April 2007

CONTRACT DATA REQUIREMENTS LIST  
Form Approval OMB No. 0704-0188  
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

- A. Contract Line Item No.: 0002
- B. Exhibit:
- C. Category:
- D. System/Item: Bowhead 600 GPM pump
- E. Contract/Pr No.: W56HZV-07-C-0409
- F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 46 of 47</b>
<b>Name of Offeror or Contractor:</b> BOWHEAD MANUFACTURING COMPANY, L.L.C		

- 1. Data Item No. A017
- 2. Title of Data Item: DESIGN CHANGE NOTICE (DCN)
- 3. Subtitle:
- 4. Authority: DI-ADMN-81505
- 5. Contract Reference: C.24
- 6. Requiring Office: AMSTA-LC-CJAPB
- 7. DD250 REQ:
- 8. App Code: A
- 9. Dist. Statement Required: A
- 10. Frequency: As Req
- 11. As Of Date: See Block 16
- 12. Date of First Sub: See Block 16
- 13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses AMSTA-LC-CJAPB	B. COPIES	PAPER	E-MAIL	CD-ROM
			0	0	0
15. TOTAL:			0	0	0

16. Remarks:  
A016 Represents Bowhead 600 GPM pump

Submissions: Any time the contractor submits an Engineering Change Proposal during the term of the contract: a Design Change Notice (DCN) shall be submitted concurrently with the ECP.

Design Change Notices (DCN) shall fully support all approved changes, additions, deletions identified and approved by Government after First Article Test (FAT). DCN shall clearly identify affected Technical Manual and Provisioning data to be incorporated as applicable. EDFP data necessary to support DCN shall be provided by contractor and incorporated into PPL.

Design Change Notices SHALL BE PREPARED ACCORDING TO DI-ALSS-81529, THE SCOPE OF WORK PARAGRAPH C.19, AND ATTACHMENT 0007 OF THIS CONTRACT.

ALL CORRECTIONS AND CHANGES THAT REFLECT FINAL CONFIGURATION MUST BE INCLUDED IN THE FINAL PPL.  
COMMERCIAL ITEM (CI), COMMERCIAL OFF THE SHELF (COTS) ITEMS WILL BE IDENTIFIED IN THE PPL TO THE LEVEL OF PARTS IDENTIFICATION REQUIRED FOR MAC MAINTENANCE LEVELS. SUPPORTING COTS PTD MUST ACCOMPANY ALL PPL SUBMISSION IN A TOP-DOWN BREAK DOWN, DISASSEMBLY SEQUENCE THAT INTERFACES WITH THE PPL SEQUENCE.

ELECTRONIC SUBMISSIONS SHALL BE ON CD-ROM READABLE BY COMPUTERS RUNNING MICROSOFT WINDOWS OR AS ARRANGED IN WRITING WITH THE PCO.

GOVERNMENT RECEIPT OF DOCUMENTATION DOES NOT CONSTITUTE ACCEPTANCE. AMSTA-LC-CJAPB WILL PROVIDE NOTICE OF ACCEPTANCE FOR THE DOCUMENTATION THROUGH THE PCO TO CONTRACTOR WITHIN THE ESTABLISHED TIME FRAME AND GUIDELINES CALLED OUT IN THE SCOPE OF WORK AND APPLICABLE CDRLS.

HARD COPY AND ELECTRONIC SUBMITTALS UNDER THIS CDRL SHALL BE FORWARDED TO THE FOLLOWING ADDRESS:  
U.S. ARMY TACOM 6501 E. 11 MILE, MAILSTOP 120, AMSTA-LC-CJAPB, ATTN: DARCY BELL, WARREN, MI 48397-5000

G. Prepared By: Darcy S. Bell Maintenance System Manager AMSTA-LC-CJAPB	I. Approved By: Frank Bosley Team Leader AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-0409 <b>MOD/AMD</b> P00001	<b>Page 47 of 47</b>
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**Name of Offeror or Contractor:** BOWHEAD MANUFACTURING COMPANY, L.L.C

suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. Contract Line Item No.:  
B. Exhibit:  
C. Category:  
D. System/Item: Bowhead 600 GPM pump  
E. Contract/Pr No.: W56HZV-07-C-0409  
F. Contractor: BOWHEAD MANUFACTURING COMPANY, L.L.C.

1. Data Item No. A018  
2. Title of Data Item: Authorized Stock List (ASL)  
3. Subtitle:  
4. Authority: DI-ADMN-81505  
5. Contract Reference: C.25  
6. Requiring Office: AMSTA-LC-CJAPB  
7. DD250 REQ:  
8. App Code: A  
9. Dist. Statement Required: A  
10. Frequency: As Req  
11. As Of Date: See Block 16  
12. Date of First Sub: See Block 16  
13. Date of Subs: Submission Block 16

14. DISTRIBUTION	A. Addresses AMSTA-LC-CJAPB	B. COPIES	PAPER	E-MAIL	CD-ROM
			1	1	0
15. TOTAL:			2	1	0

Contract Data Requirements List

16. Remarks:  
A017 REPRESENTS Bowhead 600 GPM Pump

As Clairified by Scope of Work Paragraph C.20

The contractor shall prepare and submit one ASL for government review and contractor/government editing. The proposed ASL shall contain the contractors recommended quantities of repair parts for the pump, to INCLUDE CONSUMABLE and expendable items. Preparation of The proposed asl SHALL take into ACCOUNT THE FOLLOWING Guidelines:

REPAIR PARTS WITH ESSENTIALITY CODES: C, D, E, J  
ITEMS MAY BE CONSTRAINED BASED ON END ITEM ESSENTIALITY, SPACE, AND DEMAND  
WHEN TWO OR MORE ITEMS CAN BE STOCKED, ONLY 1 WILL BE LISTED IF IT CAN BE CONSIDERED EQUIVALENT  
30 DAYS OF SUPPLY  
INITIAL STOCKAGE FOR EQUIPMENT

G. Prepared By: Darcy S. Bell Maintenance System Manager AMSTA-LC-CJAPB	I. Approved By: Frank Bosley Team Leader AMSTA-LC-CJAPB
H. Date: 20 April 2007	J. Date: 20 April 2007

\*\*\* END OF NARRATIVE J0001 \*\*\*

**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Exhibit A  
**PAGE** 1

CDRL A001 through A018 are contained within this contractual document. They are located in Section J.



**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Attachment 0005  
**PAGE** 1

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**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Attachment 0006  
**PAGE** 1

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**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Attachment 0007  
**PAGE** 1

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**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Attachment 0008  
**PAGE** 1

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**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Attachment 0009  
**PAGE** 1

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**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Attachment 0010  
**PAGE** 1

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**PIIN/SIIN** W56HZV-07-C-0409  
**MOD/AMD** P00001  
**ATT/EXH ID** Attachment 0011  
**PAGE** 1

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